

NEW RESTROOM BLDG. EAST RIVERSIDE PARK
1155 S. SUBER ROAD - GREER, SC 29650

IBC 2012 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: **EAST RIVERSIDE PARK RESTROOM**
 Address: **1155 S. SUBER ROAD - GREER, SC 29650**
 Proposed Use: --- E-mail: **dlangley@i-a-architects.com**
 Owner or Authorized Agent: **Greenville Co. Recreation Dept., Don Shuman** Phone: **(864) 676-2180** Fax: **(864) 288-6499**
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City _____ County Greenville

LEAD DESIGN PROFESSIONAL: David E. Langley, AIA

Design Discipline	Firm Name	Individual Name	Ind. License	Firm License	Contact Information
Architect:	Langley & Associates Architects, LLC	David E. Langley, AIA	4739 (SC)	98012 (SC)	Phone: (864) 968-0224
					Fax: (864) 968-9550
					Email: dlanlgey@la-architects.com
Civil Engineer:	Arbor Engineering, Inc.	Jay Martin, PE	(SC)	C00533 (SC)	Phone: (864) 235-3589
					Fax: (864) 233-6274
					Email: jaymartin@arborengineering.com
Structural Engineer:	Arrowood & Arrowood, Inc.	John Arrowood, PE	20477 (SC)	C03036 (SC)	Phone: (864) 233-9383
					Fax: (864) 232-7855
					Email: john@arrowoodarrowood.com
HVAC Engineer:	Carolina Engineering Solutions, Inc.	Jake Joye, PE	13573 (SC)	C02825 (SC)	Phone: (864) 370-9355
					Fax: (864) 370-9505
					Email: jdjoye@carolinaengr.com
Plumbing Engineer:	Carolina Engineering Solutions, Inc.	Jake Joye, PE	13573 (SC)	C02825 (SC)	Phone: (864) 370-9355
					Fax: (864) 370-9505
					Email: jdjoye@carolinaengr.com
Electrical Engineer:	Burdette Engineering, Inc.	Don Burdette, PE	9350 (SC)	C00495 (SC)	Phone: (864) 297-8717
					Fax: (864) 297-8719
					Email: dburdette@burdetteengr.com
Fire Protection Engineer:	N/A	----	----	----	Phone: ----
					Fax: ----
					Email: ----

YEAR EDITION OF CODE: 2012 IBC, 2012 IMC, 2011 NEC, 2009 IECC, 2009 A117.1 ICC / ANSI, 2012 IPC			
NEW CONSTRUCTION	RENOVATION	UPFIT	ALTERATION

BUILDING DATA									
Construction Type:									
	I-A	I-B	II-A	II-B	III-A	III-B	IV	V-A	V-B
Mixed construction:	No		Yes		Types _____				
Sprinklers:	No		Yes		NFPA-13		NFPA-13R		NFPA-13D
Standpipes:	No		Yes		Class:	I	II	III	Wet Dry
Fire District:	No		Yes						
Building Height:	EXST		Number of Stories		<u>1</u>		Unlimited per		<u>N/A</u>
Mezzanine:	No		Yes						
High Rise:	No		Yes		Central Reference Sheet # (if provided)				
Previous Occupancy:	N/A								

GROSS BUILDING AREA (Per Floor)	
---------------------------------	--

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Level 1	0 SF	576 SF	576 SF
Level 2	N/A	N/A	N/A
Total	0 SF	576 SF	576 SF

ALLOWABLE AREA - NEW BUILDING

Primary Occupancy:		Assembly	A-1	A-2	A-3	A-4	A-5
Business	Education	Factory-Industrial (F1-F2?) _____				Hazardous (H1-H5?) _____	
Institutional (Unrestrained) (I1-I5?) _____			Institutional (restrained) Use Condition (1-5?) _____			Mercantile	
Residential (R1-R4?) _____		Storage (S1-S2?) _____		Utility & Misc.			
Parking Garage (Open-Enclosed Repair?) _____							

NOTE: Occupancy is A-2 Occupancy with less than 50 occupants, which is classified as Group B.

Secondary Occupancy: NoneSpecial Occupancy: **None**

Mixed Occupancy: No Yes Separation: N/A Hour Exception:

Non-Separated Mixed Occupancy: (IBC Section 508.3.2)

The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

Separated Mixed Occupancy:

Allowable Area: (IBC Section 508.4.2) - See table below for area calculations
In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed one.

Allowable Height: (IBC Section 508.4.3)

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA FOR UNLIMITED ³	(F) MAXIMUM BUILDING AREA .
1	BUSINESS	576	9,000	N/A	N/A	NA	9,000
1	---	---	9,000	N/A	N/A	NA	9,000
1	---	---	9,000	N/A	N/A	NA	9,000

Open space area increases from Section 506.2 are computed thus:

- Perimeter which fronts a public way or open space having 20 foot minimum width = 109 (F)
- Total Building Perimeter = 218 (P)
- Ratio (F/P) = 0.50 (F/P)
- W = Minimum width of public way = 30.0 (W)
- Percent of frontage increase $IF = 100 [F/P - 0.25] \times W/30 =$ 25.0 (%)

The sprinkler increase per Section 506.3 is as follows:

- Multi-story building Is = 200 percent
- Single story building Is = 300 percent

Unlimited area applicable under conditions of Sections 507.2, 507.3, 507.4, and 507.6 for Group B, F, M, S, A-3, and A-4 Group A motion picture (507.8); Malls (402.6); and H-2 aircraft taxi hangars (507.6).

Maximum Building Area for: total number of stories in the building \times E but not greater than 3 \times E.

- The maximum area of parking garages must comply with 406.5.4.

ALLOWABLE HEIGHT - NEW BUILDING				
	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	V-B	N/A	V-B	IBC2012-602
Building Height In Feet	40'	Feet-H+20'=N/A	----	IBC2012-504.1
Building Height in Stories	Stories 1	Stories +1= N/A	Stories 1	IBC2012-504.1

FIRE PROTECTION REQUIREMENTS	
1. Fire Protection System	2. Fire Protection System
3. Fire Protection System	4. Fire Protection System
5. Fire Protection System	6. Fire Protection System
7. Fire Protection System	8. Fire Protection System
9. Fire Protection System	10. Fire Protection System
11. Fire Protection System	12. Fire Protection System
13. Fire Protection System	14. Fire Protection System
15. Fire Protection System	16. Fire Protection System
17. Fire Protection System	18. Fire Protection System
19. Fire Protection System	20. Fire Protection System
21. Fire Protection System	22. Fire Protection System
23. Fire Protection System	24. Fire Protection System
25. Fire Protection System	26. Fire Protection System
27. Fire Protection System	28. Fire Protection System
29. Fire Protection System	30. Fire Protection System
31. Fire Protection System	32. Fire Protection System
33. Fire Protection System	34. Fire Protection System
35. Fire Protection System	36. Fire Protection System
37. Fire Protection System	38. Fire Protection System
39. Fire Protection System	40. Fire Protection System
41. Fire Protection System	42. Fire Protection System
43. Fire Protection System	44. Fire Protection System
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79. Fire Protection System	80. Fire Protection System
81. Fire Protection System	82. Fire Protection System
83. Fire Protection System	84. Fire Protection System
85. Fire Protection System	86. Fire Protection System
87. Fire Protection System	88. Fire Protection System
89. Fire Protection System	90. Fire Protection System
91. Fire Protection System	92. Fire Protection System
93. Fire Protection System	94. Fire Protection System
95. Fire Protection System	96. Fire Protection System
97. Fire Protection System	98. Fire Protection System
99. Fire Protection System	100. Fire Protection System

Occupancy Group: B-Business		1 Stories	Type: V-B Unsprinklered			
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (feet)	RATING		DETAIL # AND SHEET #	DESIGN # for RATED ASSEMBLY	
		REQ'D	W/SPRINKLER REDUCTION			
Structural frame, including columns, girders trusses		0	N/A	N/A	N/A	
Bearing walls						
Exterior						
North	30	0	N/A	N/A	N/A	
East	30	0	N/A	N/A	N/A	
West	30	0	N/A	N/A	N/A	
South	30	0	N/A	N/A	N/A	
Interior		0	N/A	N/A	N/A	
Nonbearing walls/partitions	based on fire separation					
Exterior						
North		30	0	N/A	N/A	N/A
East	30	0	N/A	N/A	N/A	
West	30	0	N/A	N/A	N/A	
South	30	0	N/A	N/A	N/A	
Interior		0	N/A	N/A	N/A	
Floor Construction						
Including supporting beams & joists		N/A	N/A	N/A	N/A	
Roof Construction		N/A	N/A	N/A	N/A	
Including supporting beams & joists						
Shaft - Exit		YES	N/A	N/A	A-0.0	N/A
Shaft - Other	NO	N/A	N/A	N/A	N/A	
Corridor Separation (# <11)	YES	0	N/A	N/A	N/A	
Corridor Separation (10< # <30)	YES	0	N/A	N/A	N/A	
Corridor Separation (# >30)	NO	N/A	N/A	N/A	N/A	
Occupancy Separation	NO	N/A	N/A	N/A	N/A	
Party/Fire Wall Separation	NO	N/A	N/A	N/A	N/A	
Smoke Barrier Separation	NO	N/A	N/A	N/A	N/A	
Fire Barrier between Fire Areas	NO	N/A	N/A	N/A	N/A	

<u>LIFE SAFETY SYSTEM</u>			
Failure	Initiation	Non-Occurrence	Non-Detection

Emergency Lighting:	No	Yes
Exit Signs:	No	Yes
Fire Alarm:	No	Yes
Smoke Detection System:	No	Yes
Panic Hardware:	No	Yes

PLUMBING FIXTURE REQUIREMENTS - Table 2902.1

	Waterclosets		Urinals	Lavatories		Shower/Tubs		Drinking Fountains		Service Sink
	Male	Female		Male	Female	Male	Female	Regular	Accessible	
BUSINESS - 6 (requirements)	2	2	2/3 max.	2	2	0	0	1	1	1
Fixtures Provided (Urinals counted as WCs)	2	2	none	2	2	0	0	1	1	1

EXIT REQUIREMENTS
 88-05 (100-05 PER PERSON) 4

576SF / 100 SF PER PERSON = 6
NUMBER & ARRANGEMENT OF EXITS 1 per floor



Floor, Room or Space Designation	Minimum Number of Exits (Tables 1019.1 and 1019.2)		Travel Distance (Tables 1015.1 and 1016.1)		Arrangement of Means of Egress (1015.2)	
	Required	Shown on Plans	Allowable Travel Distance (Table 1015.1)	Actual Travel Distance Shown on Plans	Required Distance Between Exit Doors	Actual Distance Shown on Plans
FIRST FLOOR -	1	1	75	75	N/A - SINGLE EXIT	N/A - SINGLE EXIT

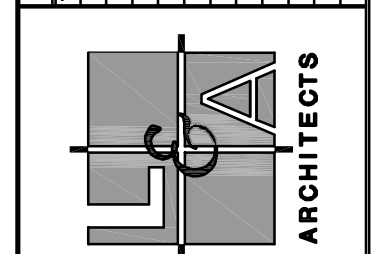
- 1.) Corridor Dead Ends (Sec. 1018.4)
- 2.) Single Exits (Table 1021.2(2) and Table 1015.1)
- 3.) Common Path of Travel (Table 1014.3)

EXIT WIDTH

[illegible]

ACCESSIBLE PARKING - **EXISTING PARKING PROVIDED**

[illegible]

**109 SOUTH MAIN STREET
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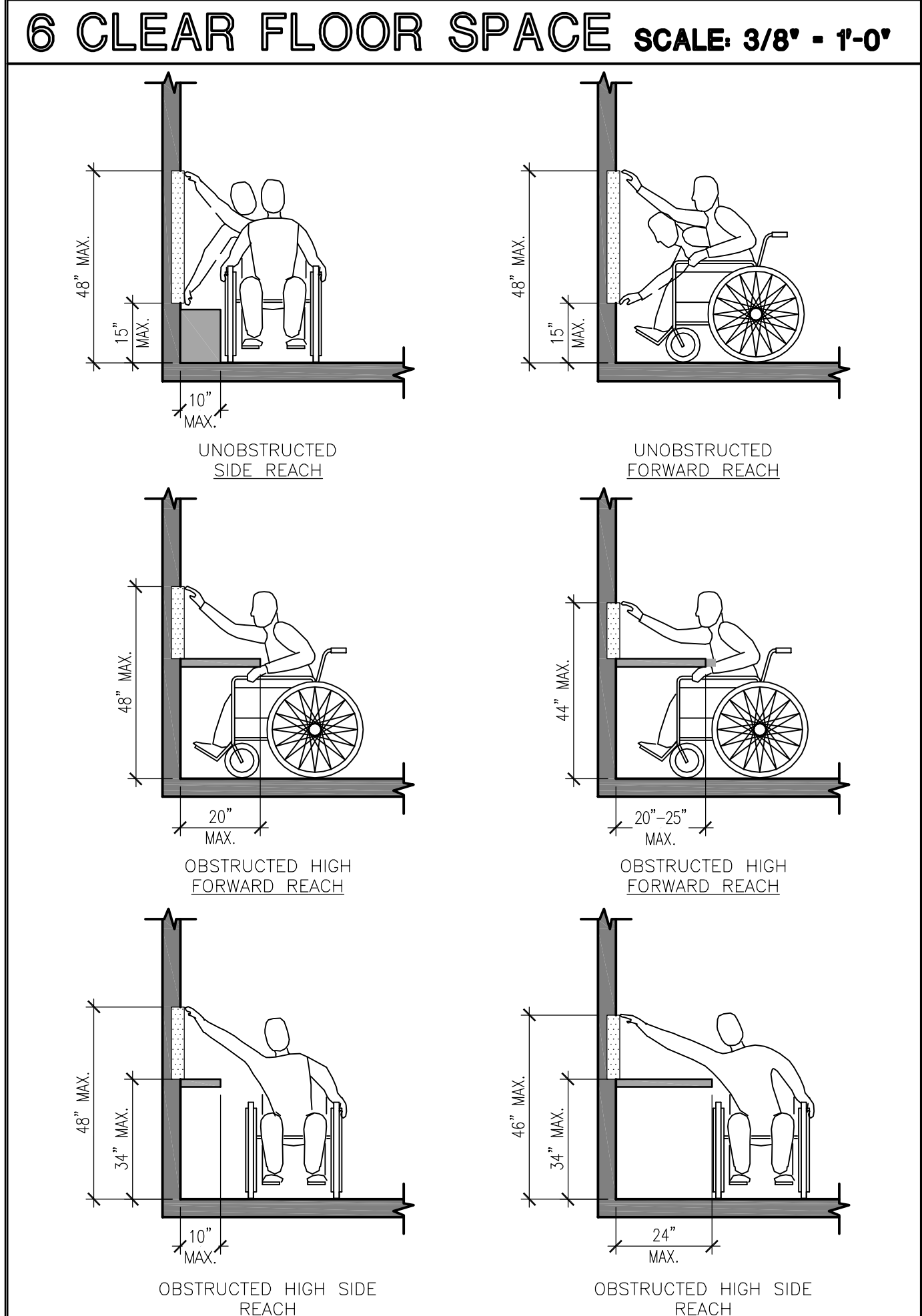
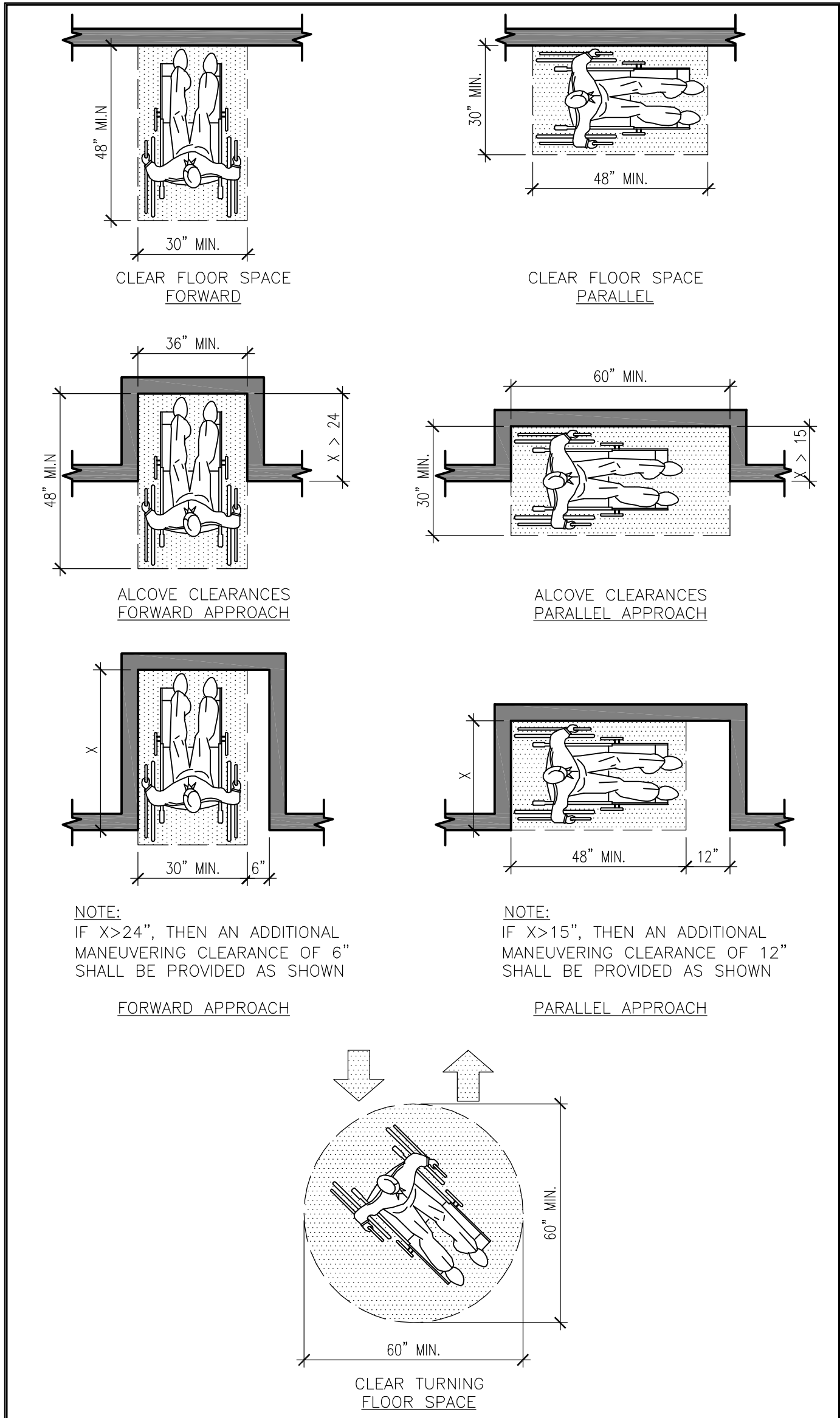
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& ASSOCIATES**
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**NEW RESTROOM BLDG.
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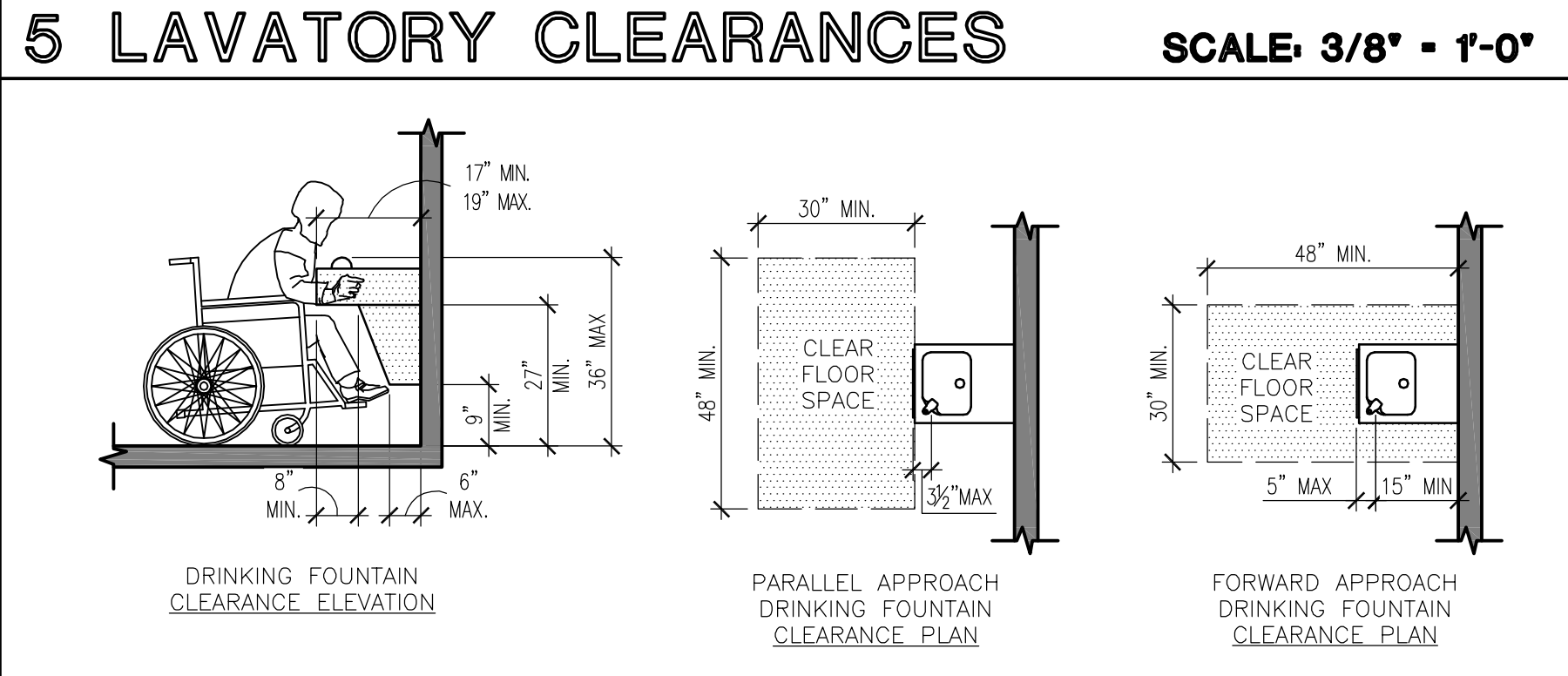
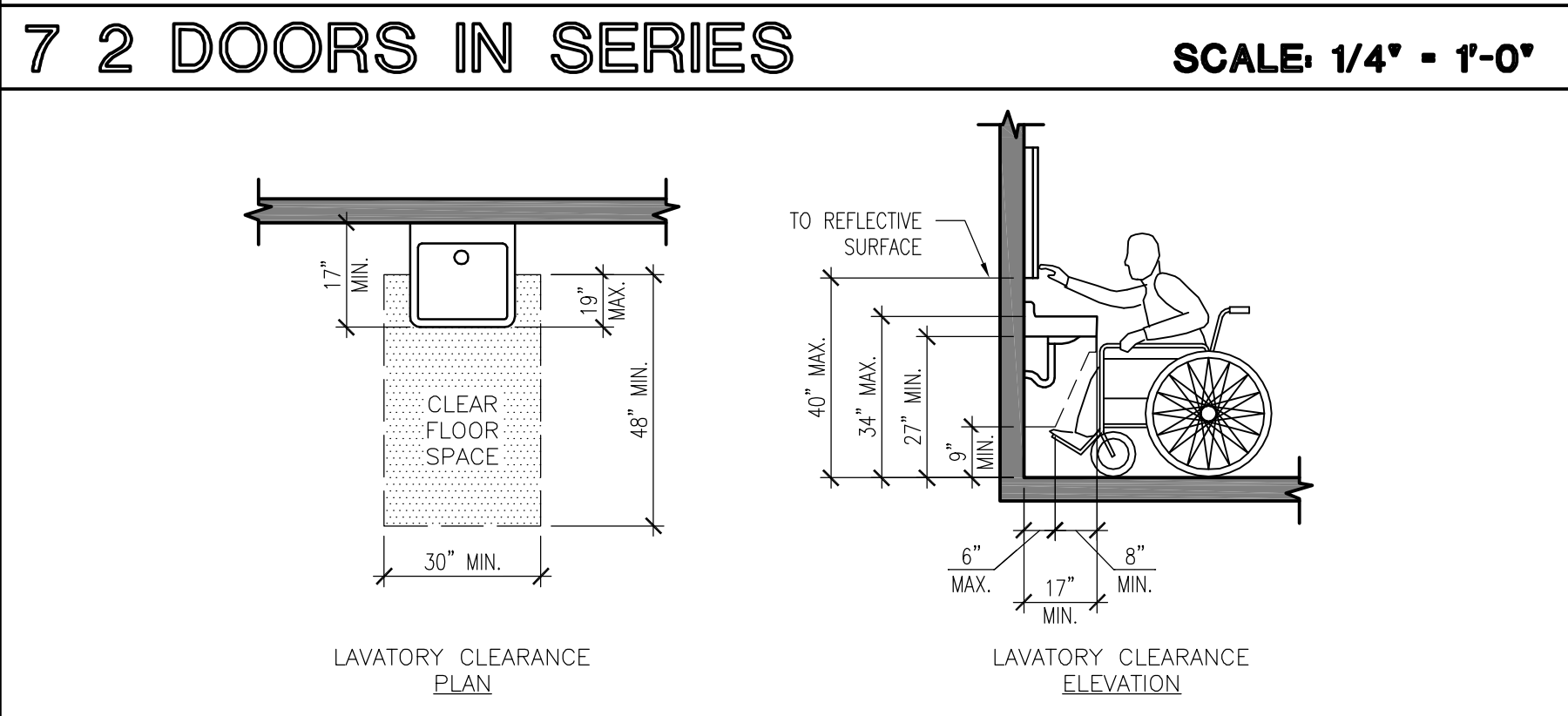
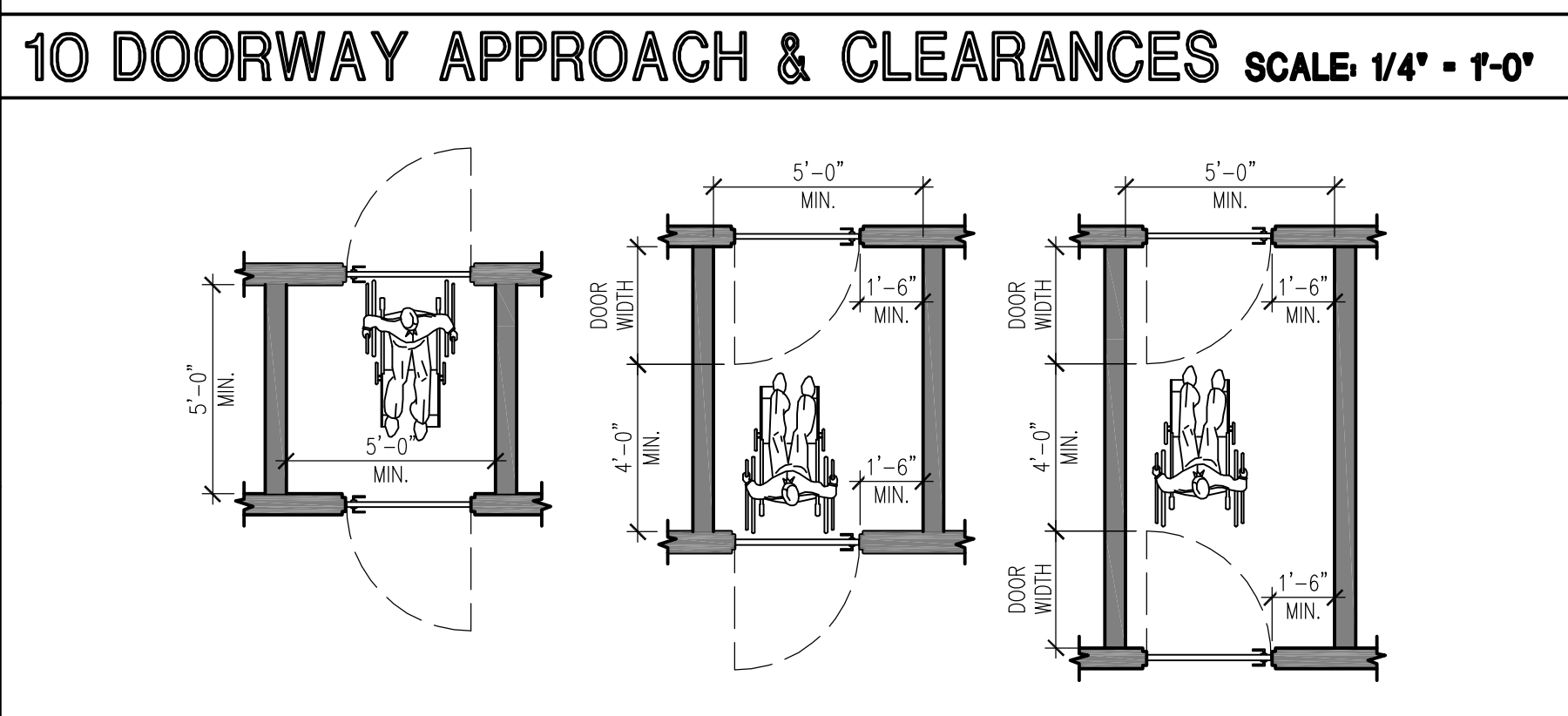
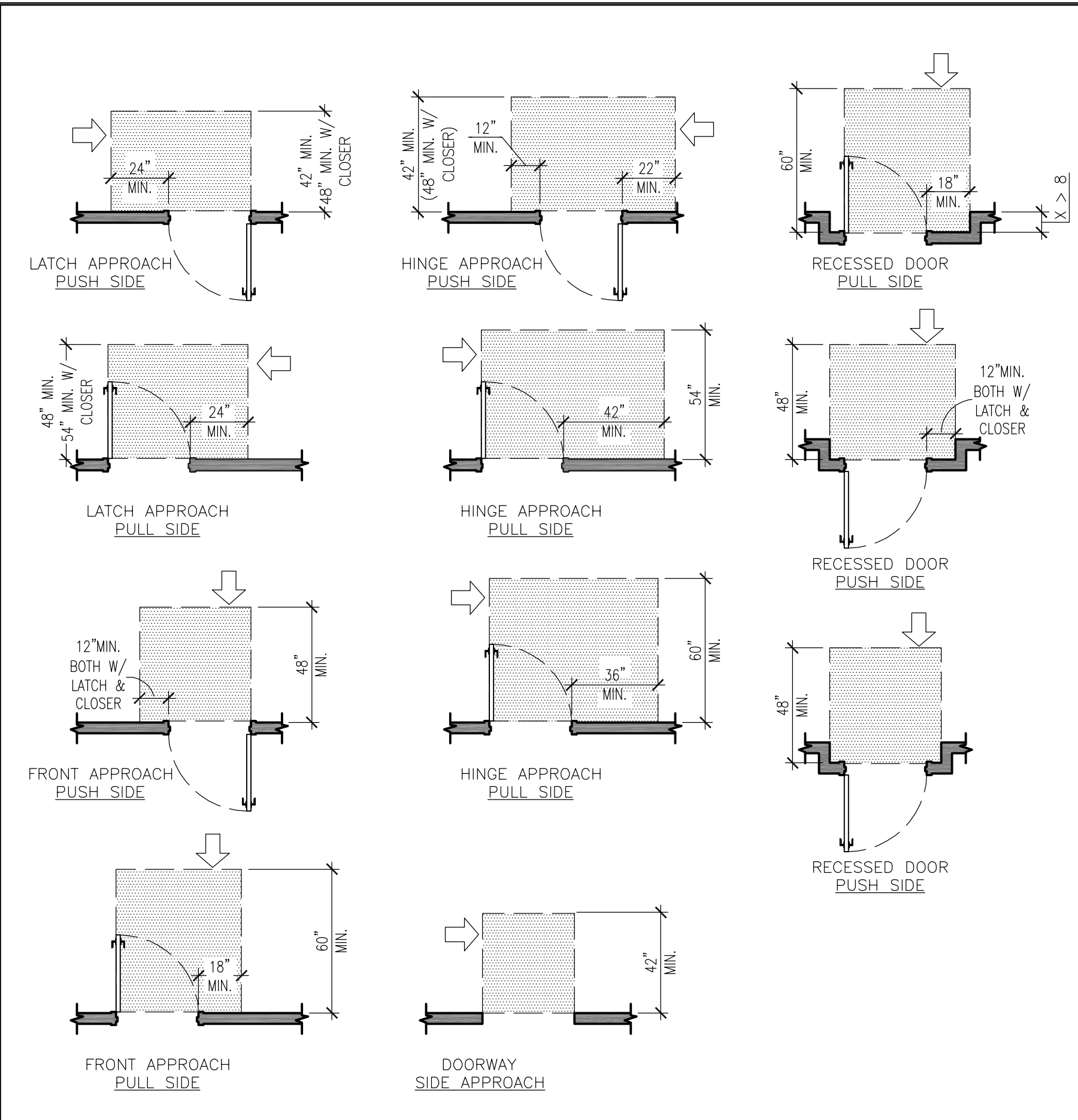
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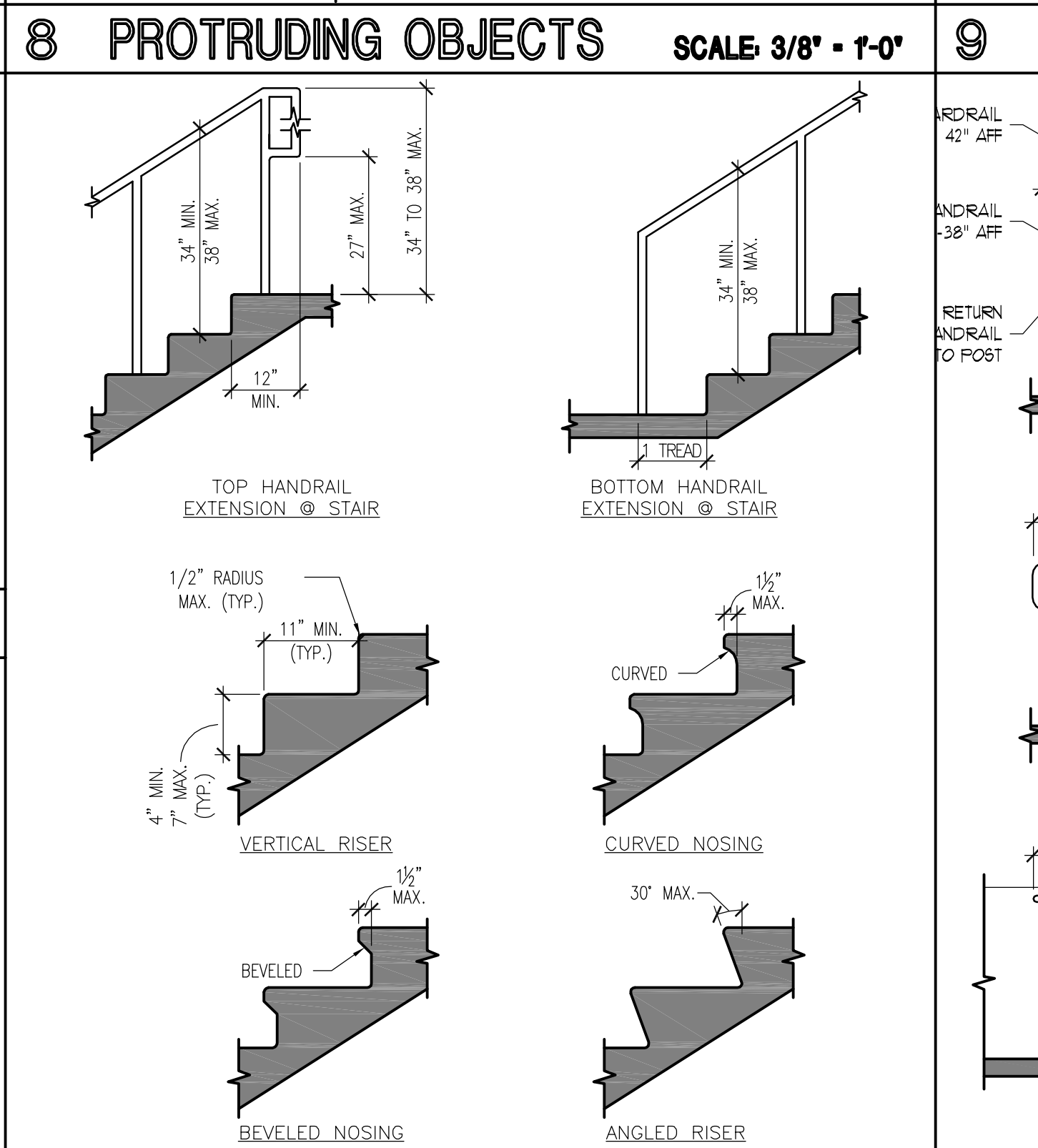
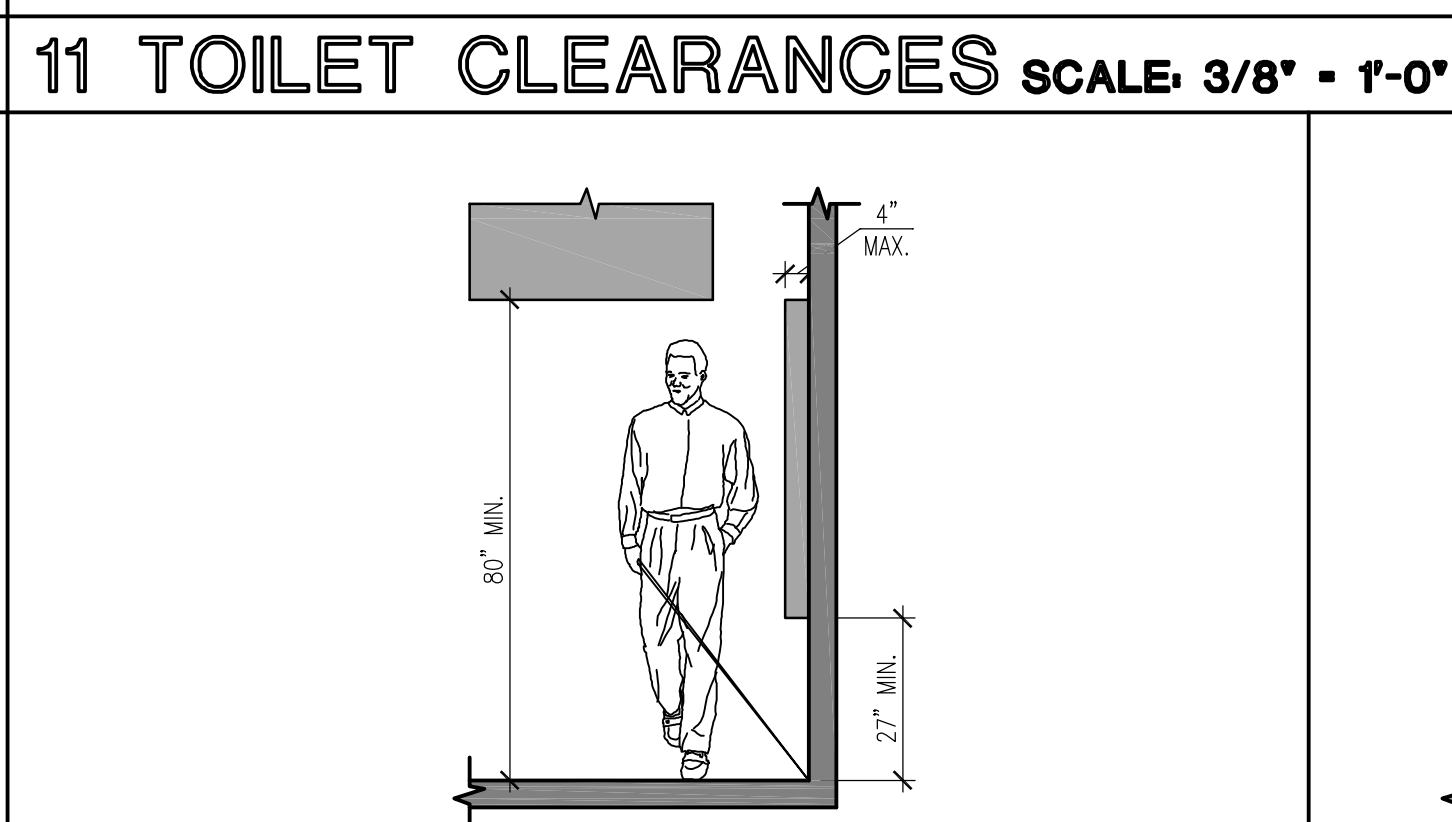
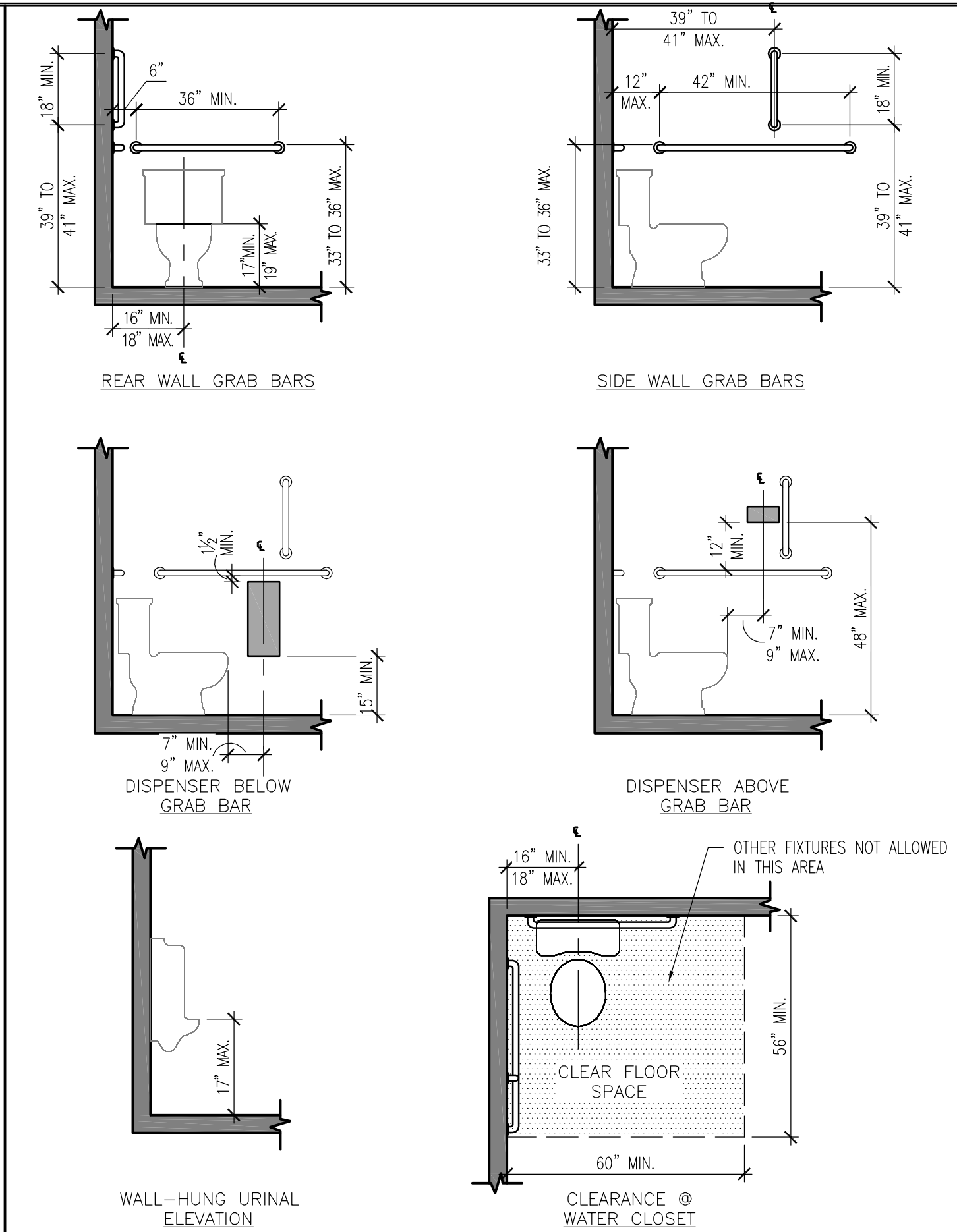
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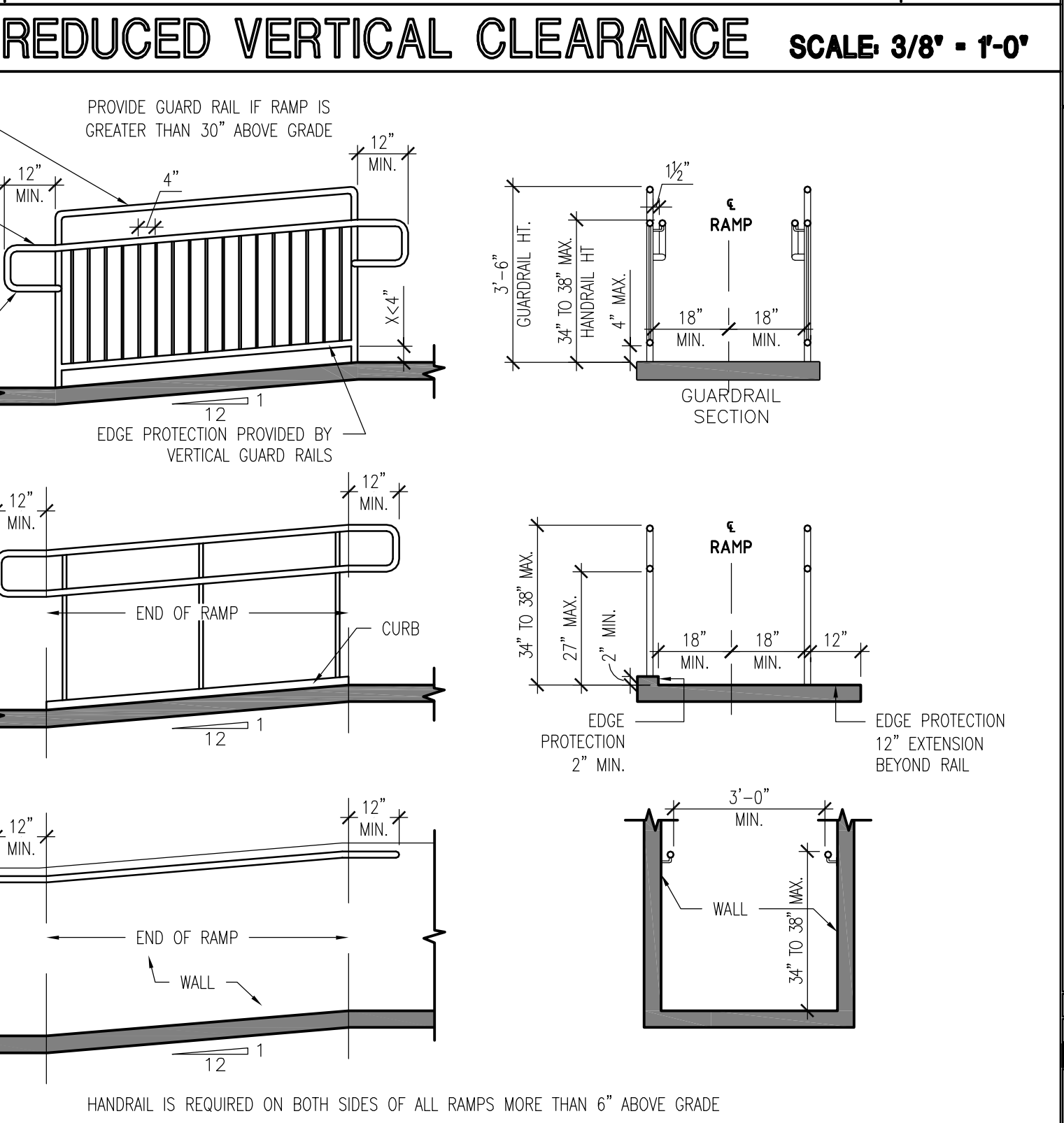
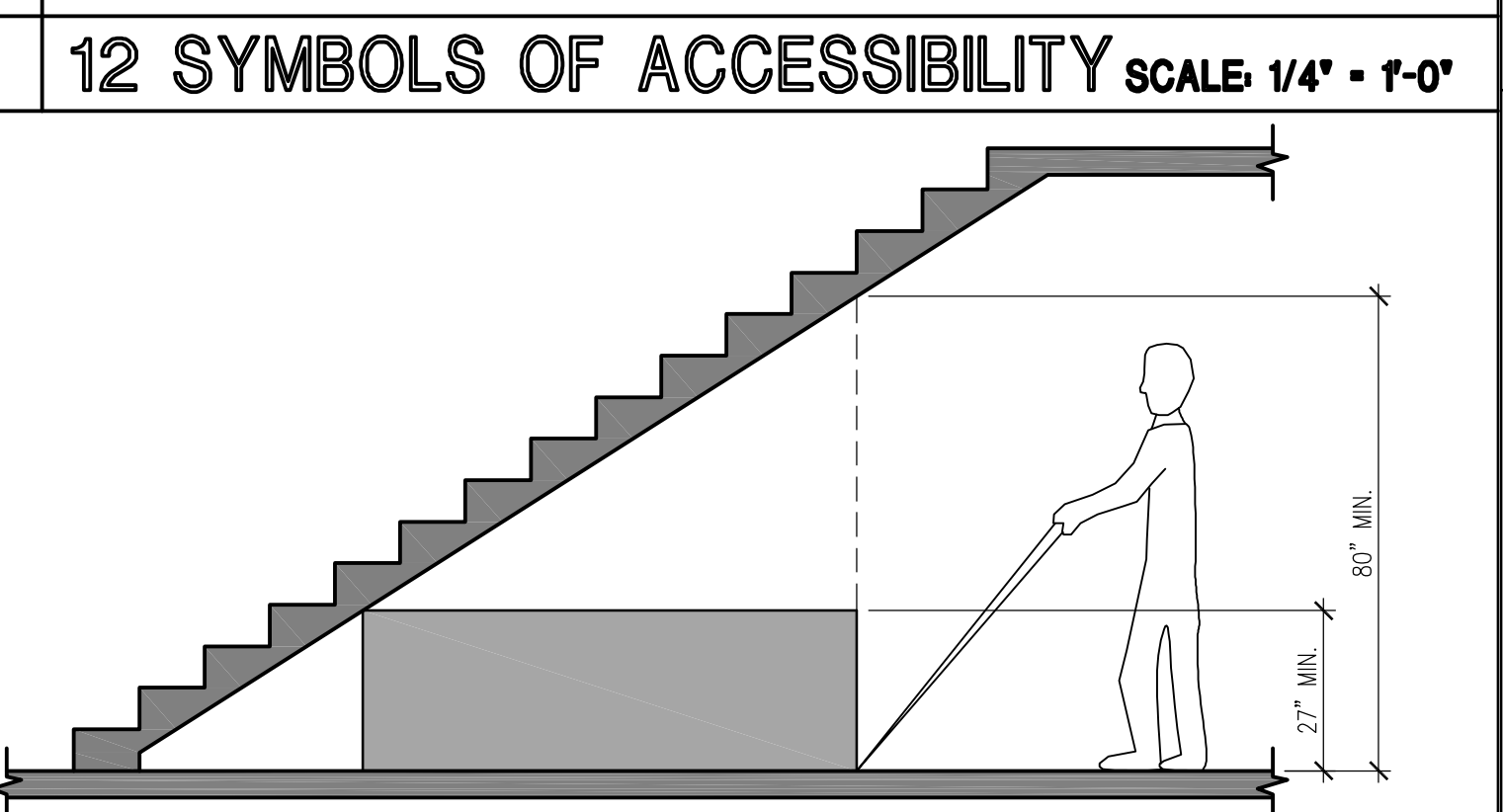
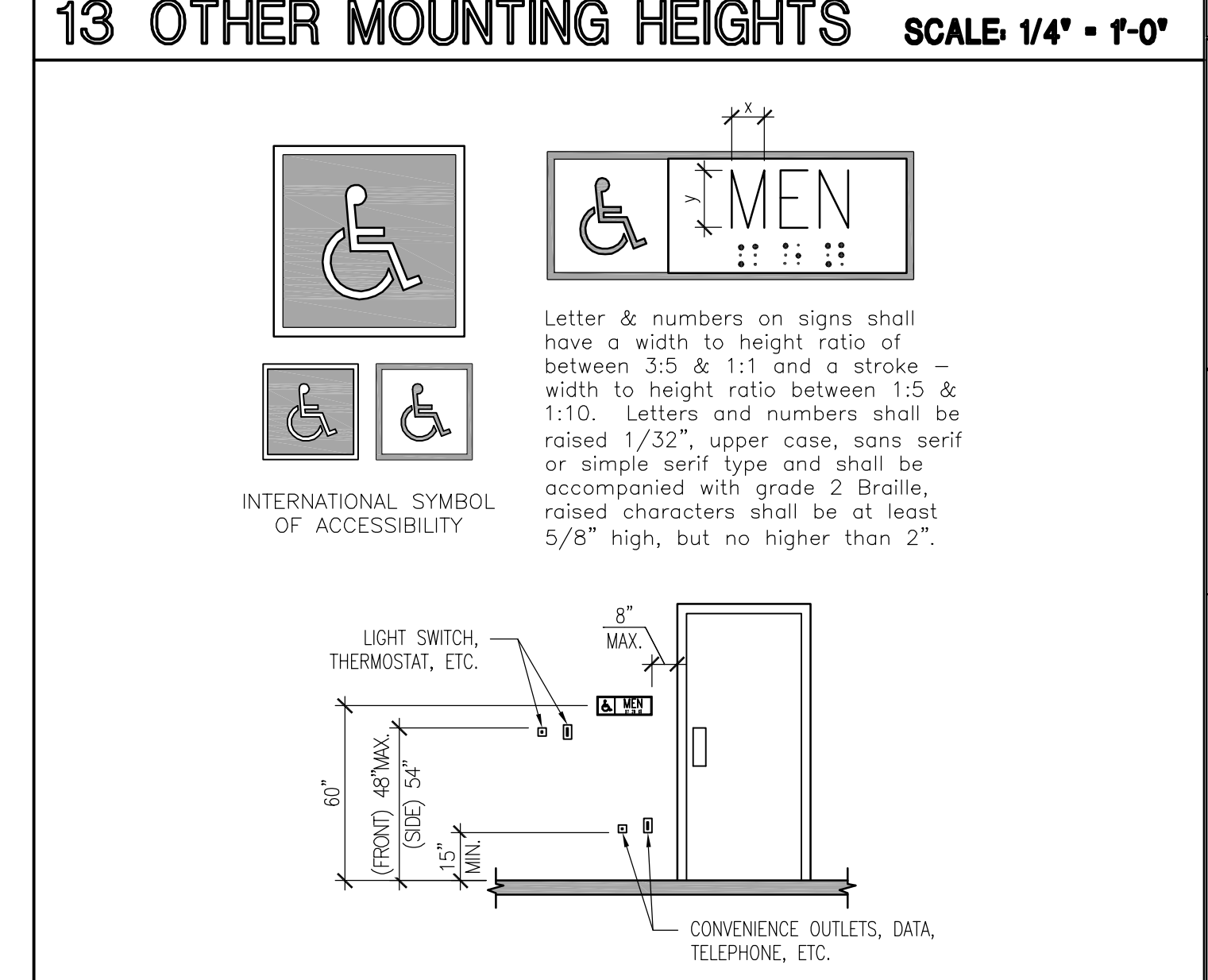
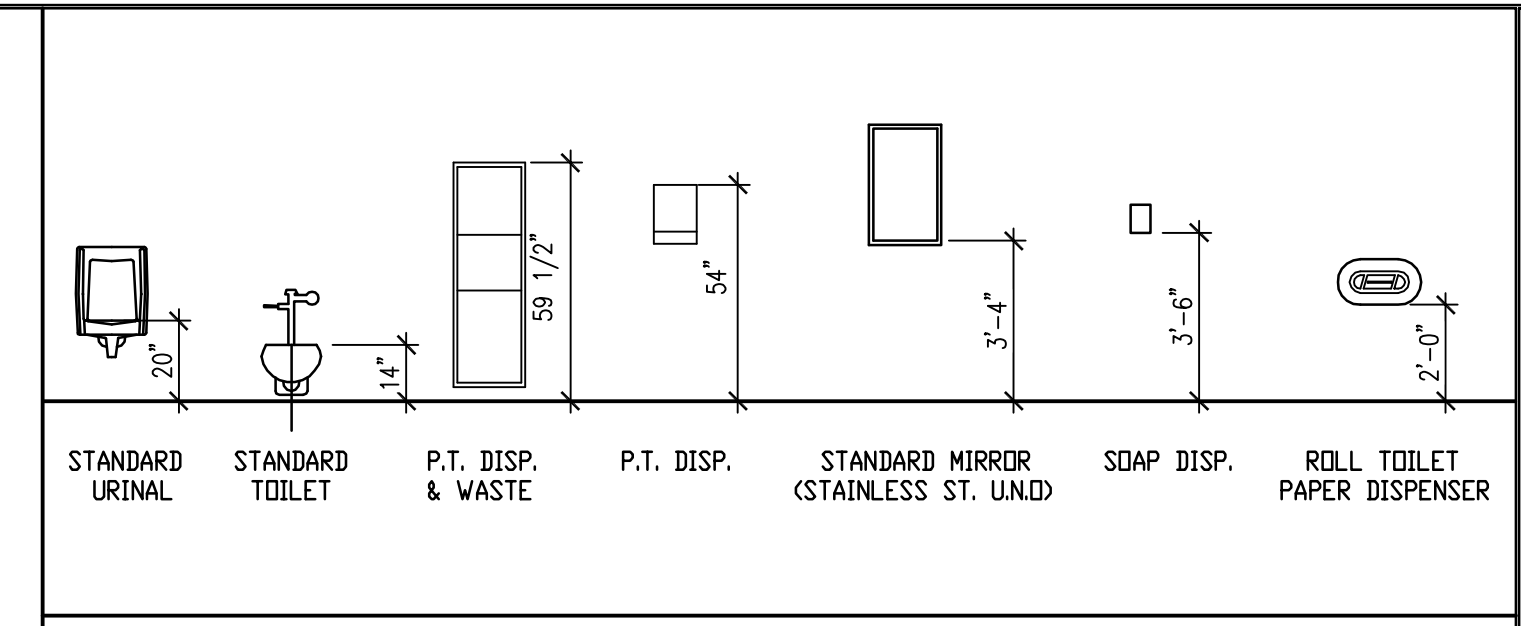
1 REACH RANGES SCALE: 3/8" - 1'-0"



2 DRINKING FOUNTAIN CLEARANCES SCALE: 3/8" - 1'-0"



3 STAIRS & HANDRAILS SCALE: 3/4" - 1'-0"



4 ACCESSIBLE RAMPS SCALE: 3/8" - 1'-0"

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
Langley & Associates
Greer, SC
98012

DAVID
LANGLEY
GREER, SC
4739
15-2016

REVISIONS
NO. DATE DESCRIPTION

ARCHITECTS

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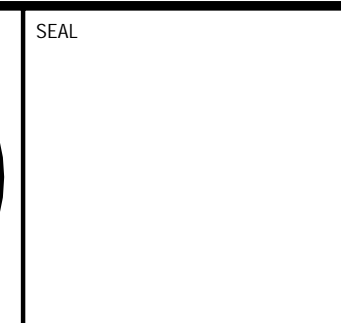
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EAST RIVERSIDE PARK
1155 S. SUBER ROAD - GREER, SC

ANSI - ADA DEATILS

JOB NO: 2015-13E
DATE: 04-15-2016
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LEGEND

REVISIONS

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GREENVILLE COUNTY SC

NEW RESTROOM SITE PLAN

GRAPHIC SCALE
50' 0' 50' 100'
SCALE: 1"=50'

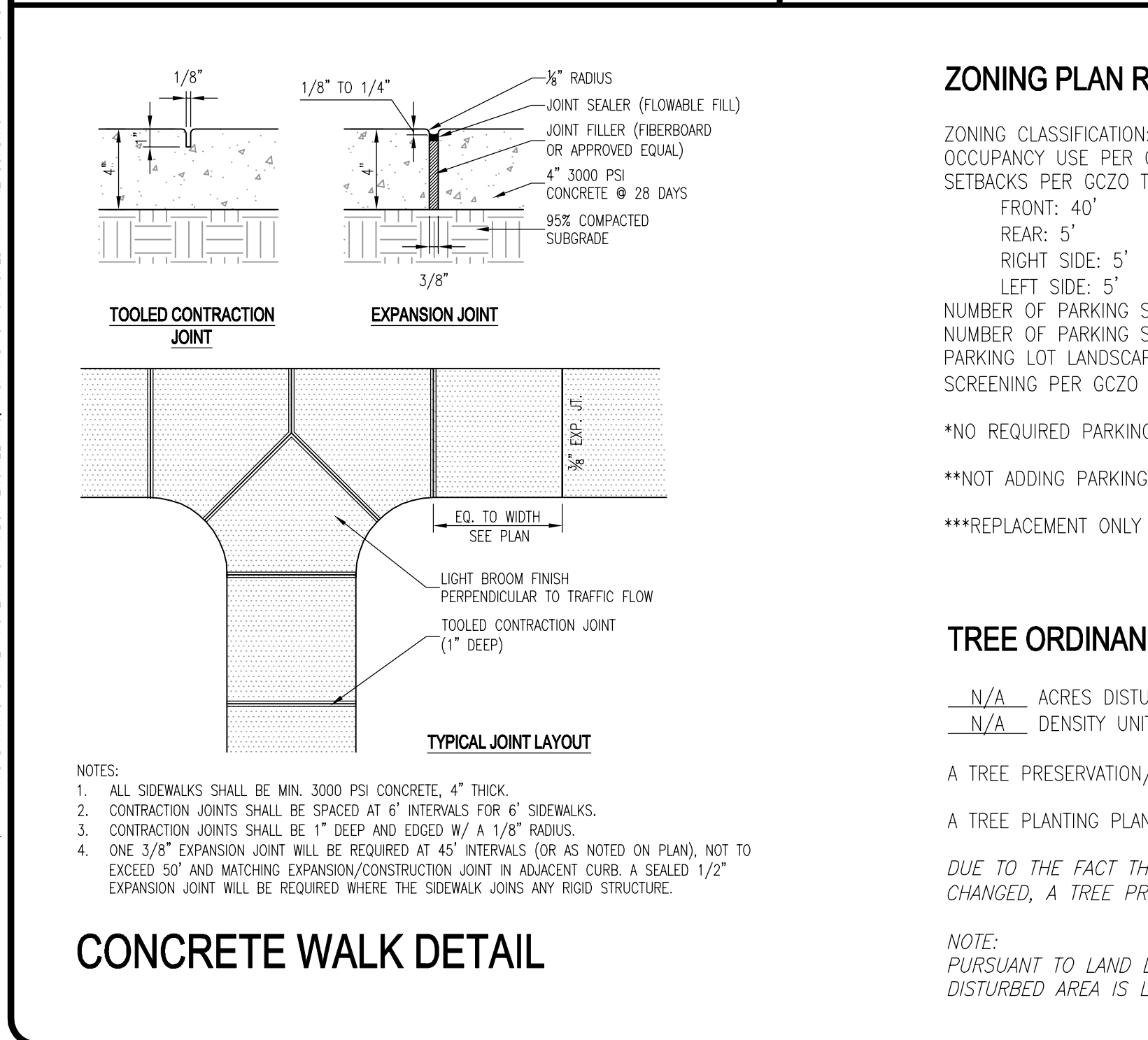
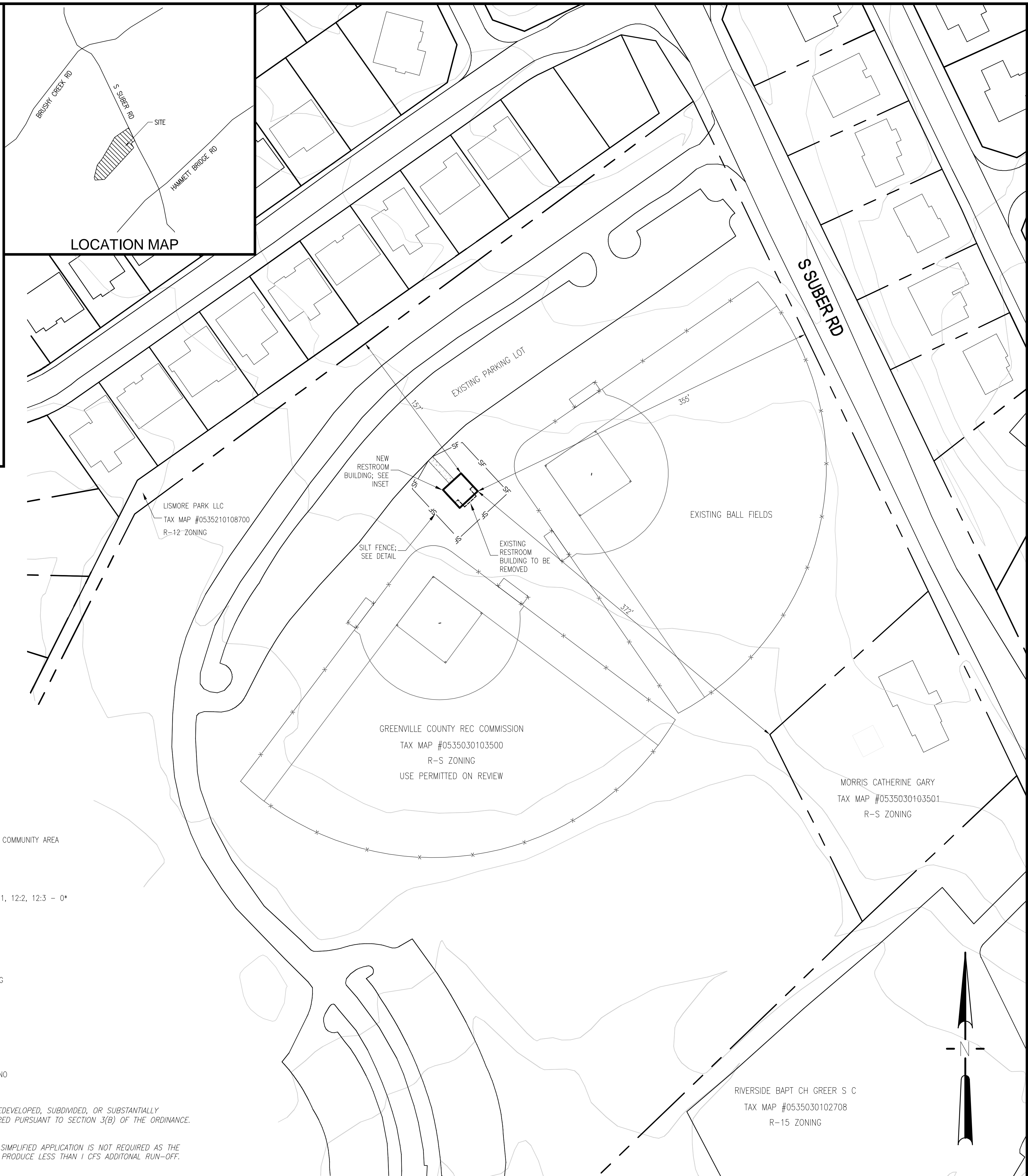
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DRAVING NO.

C-101

SHEET NO.

1 OF 1



ZONING PLAN REVIEW

ZONING CLASSIFICATION: R-S
OCCUPANCY USE PER GCZO TABLE 6.1: RECREATION – COMMUNITY AREA
SETBACKS PER GCZO TABLE 7.3

FRONT: 40'
REAR: 5'
RIGHT SIDE: 5'

NUMBER OF PARKING SPACES REQUIRED PER GCZO 12:1, 12:2, 12:3 - 0*
NUMBER OF PARKING SPACES PROVIDED - 0
PARKING LOT LANDSCAPING PER GCZO 12:4 - 0**
SCREENING PER GCZO 12:9 - N/A***

*NO REQUIRED PARKING FOR RESTROOMS

**NOT ADDING PARKING SPACES

***REPLACEMENT ONLY OF EXISTING RESTROOM BUILDING

TREE ORDINANCE PLAN REVIEW

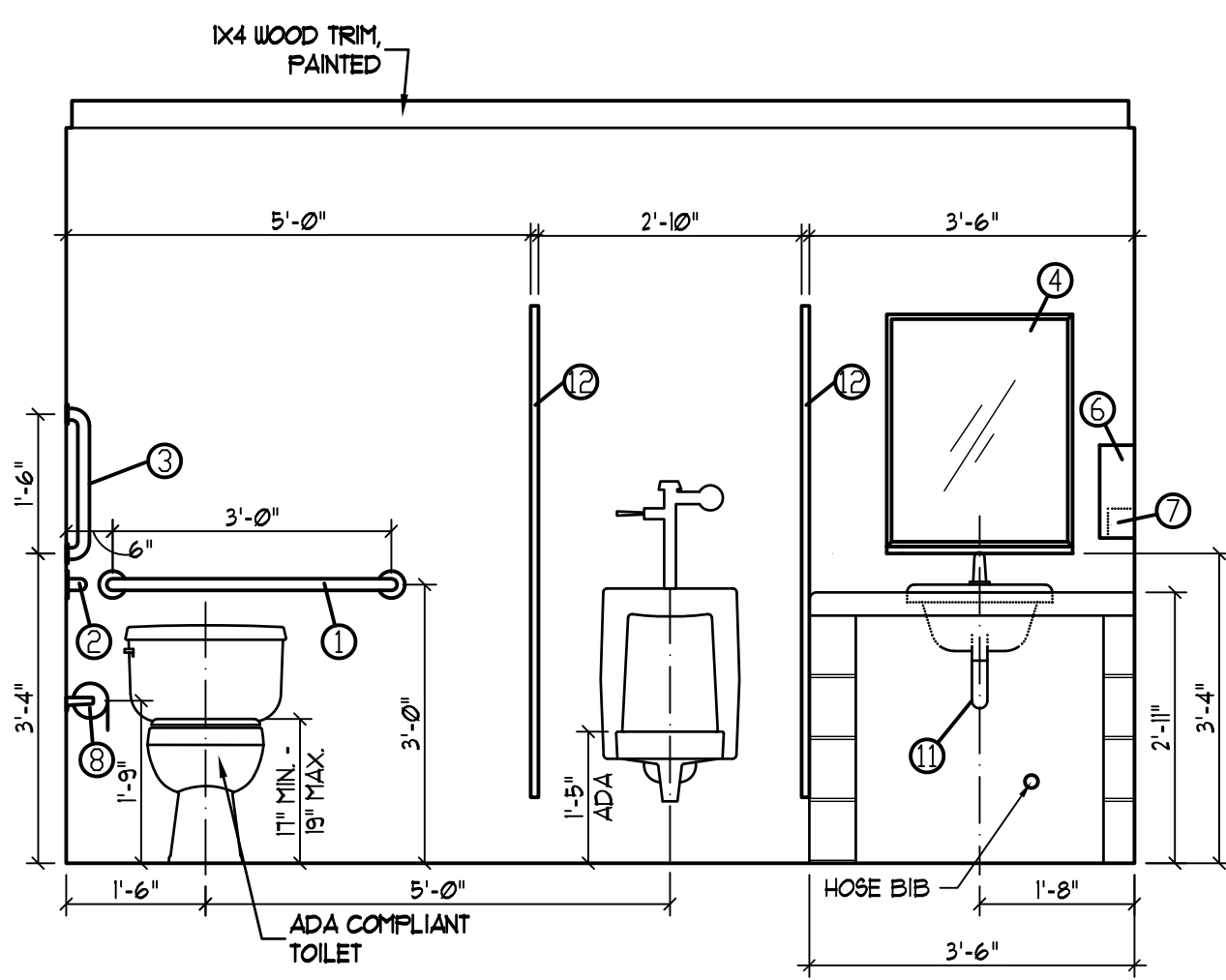
N/A ACRES DISTURBED
N/A DENSITY UNITS REQUIRED

A TREE PRESERVATION/PROTECTION PLAN IS ON FILE: NO

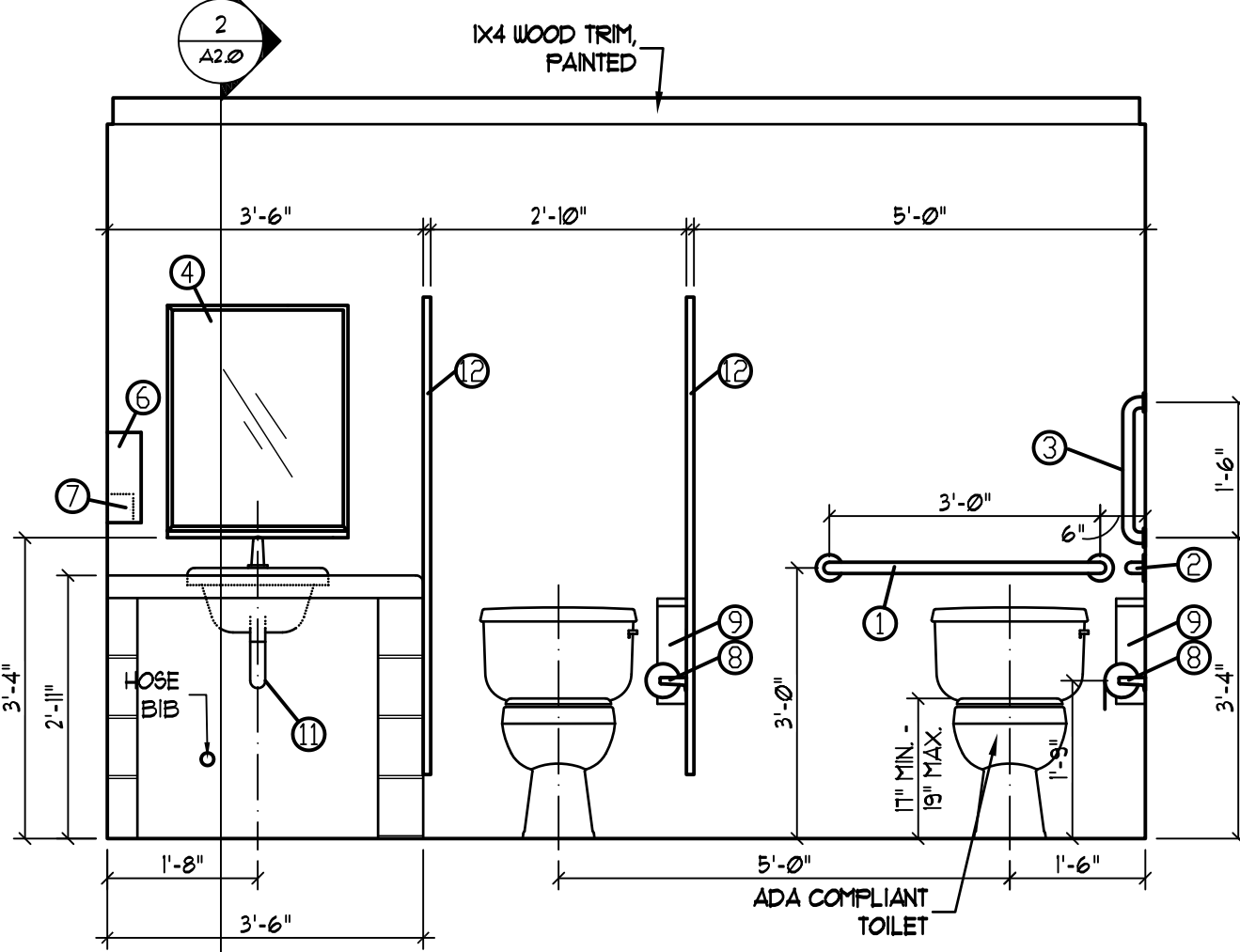
A TREE PLANTING PLAN IS ON FILE: NO

DUE TO THE FACT THAT THIS SITE IS NOT BEING REDEVELOPED, SUBDIVIDED, OR SUBSTANTIALLY CHANGED, A TREE PROTECTION PLAN IS NOT REQUIRED PURSUANT TO SECTION 3(B) OF THE ORDINANCE.

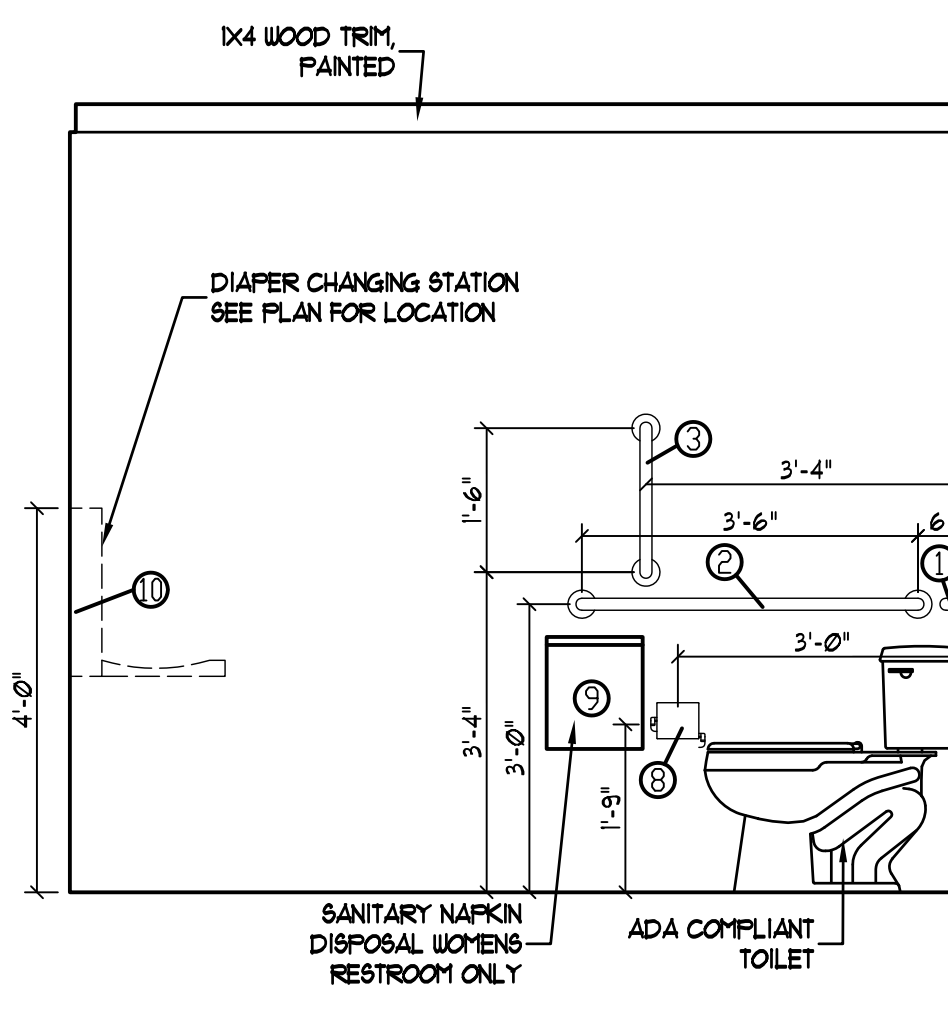
NOTE:
PURSUANT TO LAND DEVELOPMENT REGULATIONS, A SIMPLIFIED APPLICATION IS NOT REQUIRED AS THE
DISTURBED AREA IS LESS THAN 5000 SF AND WILL PRODUCE LESS THAN 1 CFS ADDITIONAL RUN-OFF.



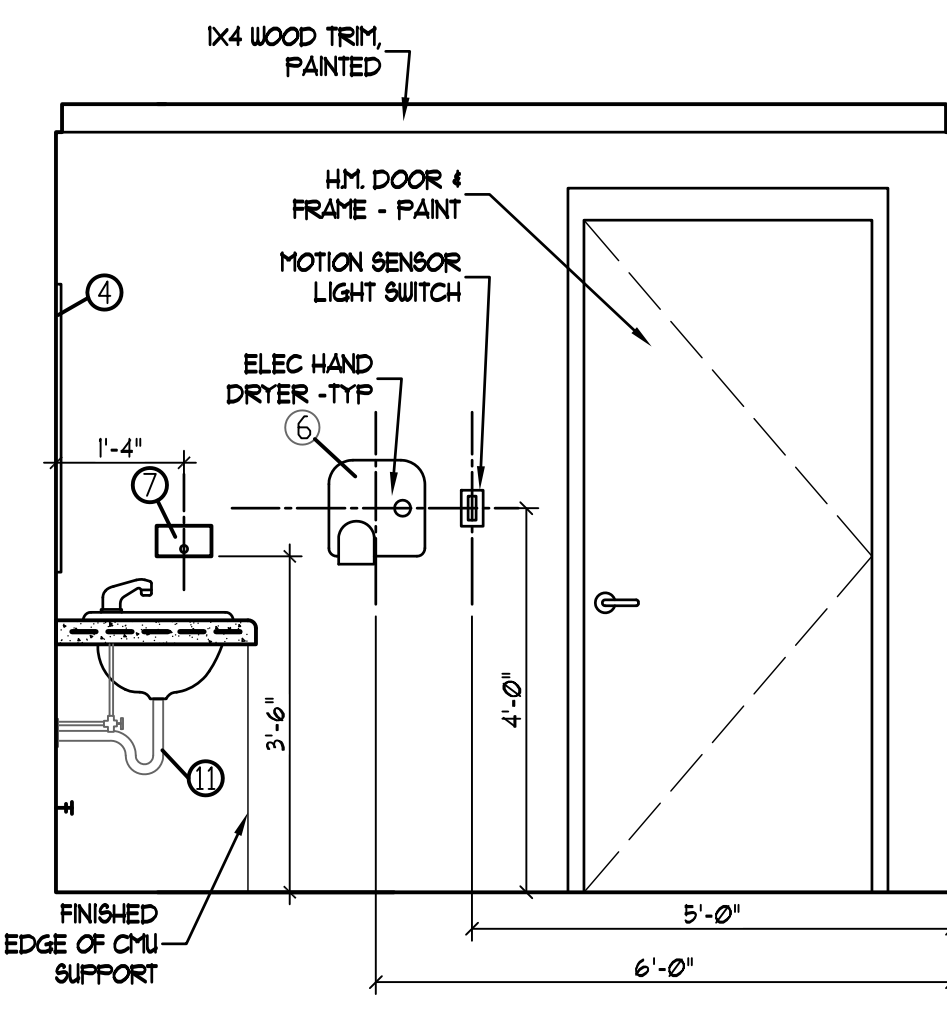
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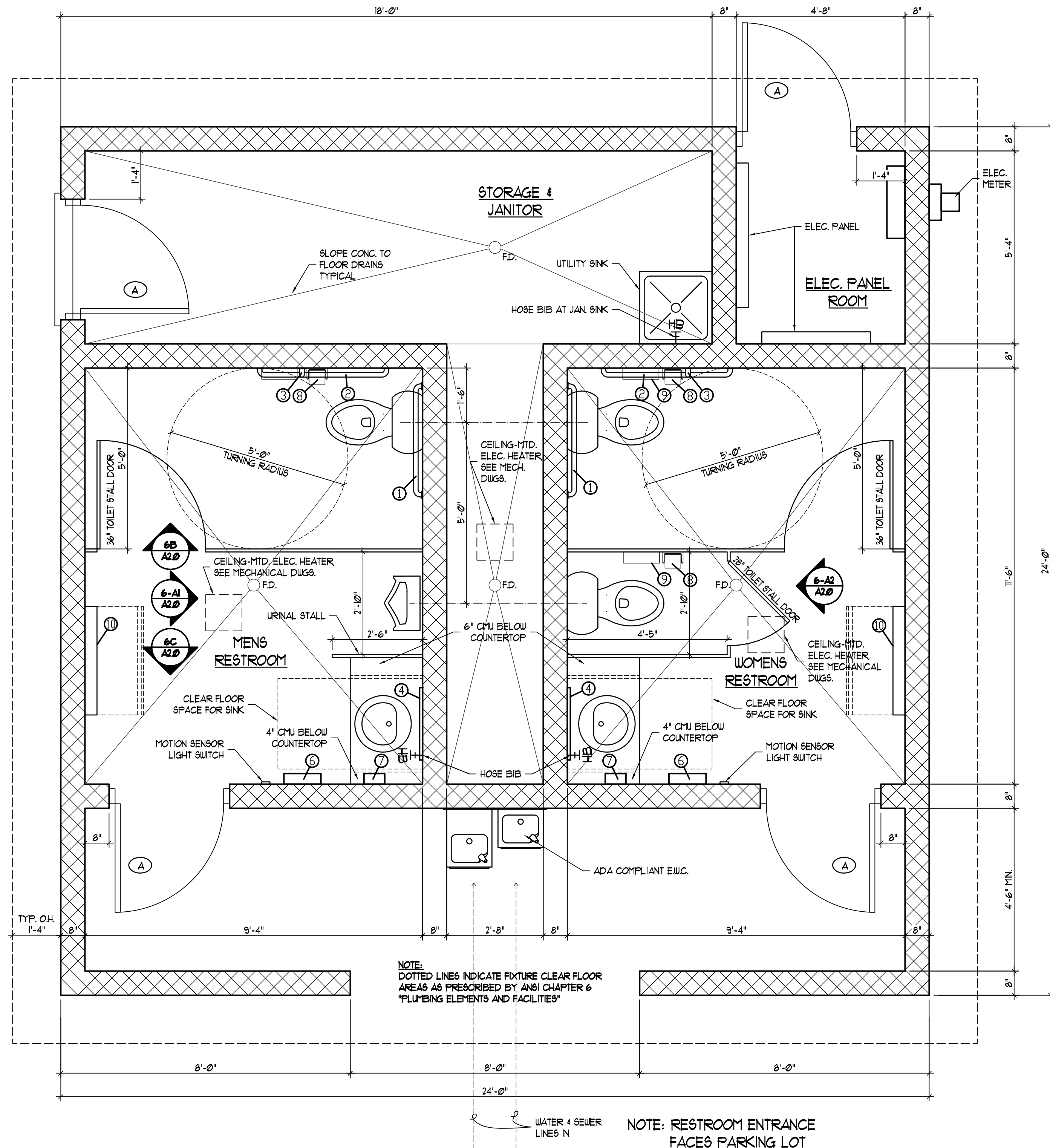
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TOILET ACCESSORY SCHEDULE			
1	36" LONG GRAB BAR	ASI 3800P SERIES, TYPE 01 CONFIGURATION, PEENED FINISH (OR APPROVED EQUAL)	
2	42" LONG GRAB BAR	ASI 3800P SERIES, TYPE 01 CONFIGURATION, PEENED FINISH (OR APPROVED EQUAL)	
3	18" LONG GRAB BAR	ASI 3800P SERIES, TYPE 01 CONFIGURATION, PEENED FINISH (OR APPROVED EQUAL)	
4	MIRROR UNIT (24" X 36") (ADA MOUNTING HEIGHT)	ASI 0670 SERIES, STAINLESS STEEL (OR APPROVED EQUAL)	
5	PAPER TOWEL DISPENSER	...NOT USED...	
6	ELECTRIC HAND DRYER	XLERATOR XL-98, STAINLESS STEEL (OR APPROVED EQUAL)	
7	LIQUID SOAP DISPENSER	OWNER FURNISHED, CONTRACTOR INSTALLED	
8	TOILET TISSUE DISPENSER	OWNER FURNISHED, CONTRACTOR INSTALLED	
9	SANITARY NAPKIN DISPENSER	ASI 0652, ST. STEEL (OR APPROVED EQUAL)	
10	DIAPER CHANGING STATION	OWNER FURNISHED, CONTRACTOR INSTALLED	
11	UNDERSINK PIPE COVER	LAVAGUARD 2EZ SERIES (OR APPROVED EQUAL)	
12	TOILET PARTITIONS	REFER TO SPECIFICATIONS	

NOTE: PROVIDE ANCHORS IN WALLS FOR ACCESSORY ITEMS AS INDICATED. SEE ACCESSORY SCHEDULE FOR MANUF. AND MODEL.

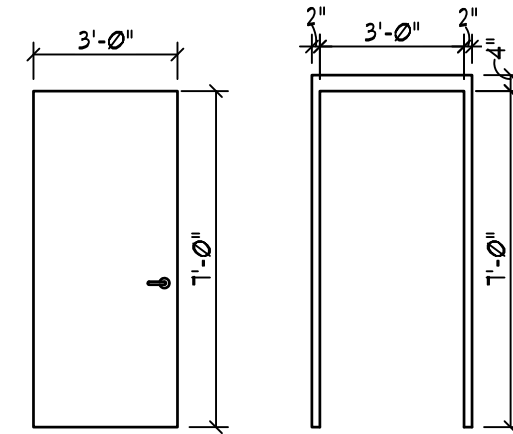
6 TOILET ELEVATIONS

SCALE: 1/2" = 1'-0"



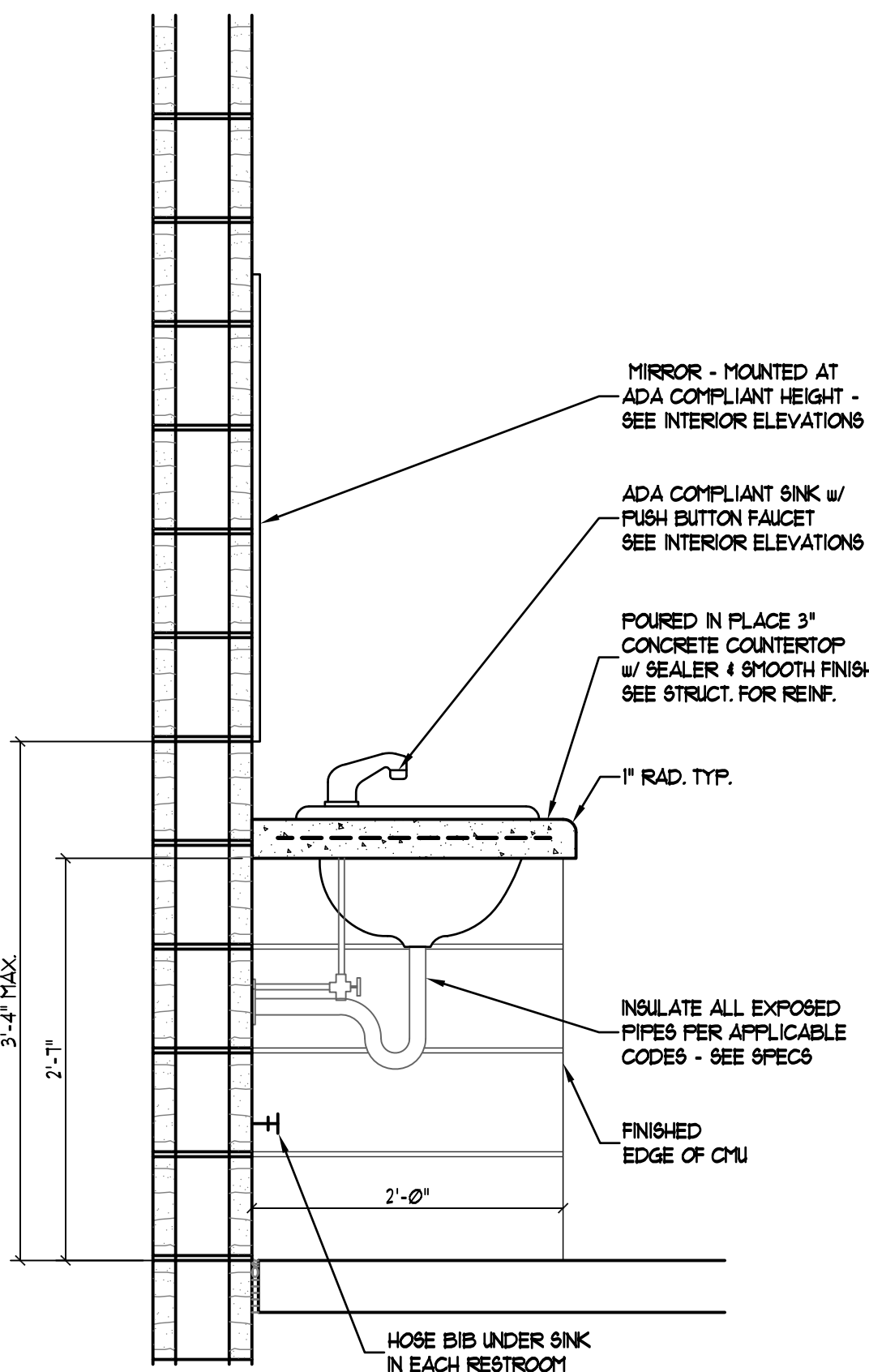
1 FLOOR PLAN

SCALE: 1/2" = 1'-0"



NOTE: ALL DOORS TO BE METAL DOORS FACTORY PRIMED, FIELD PAINTED

4 DOOR ELEV. 5 ROOM SCHEDULE



2 SINK SECTION

SCALE: 1" = 1'-0"

3 NOT USED

SCALE: N/A

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
DAVID E. LANGLEY
GREER, SC
4739

LANGLEY & ASSOCIATES
Greer, SC
98012

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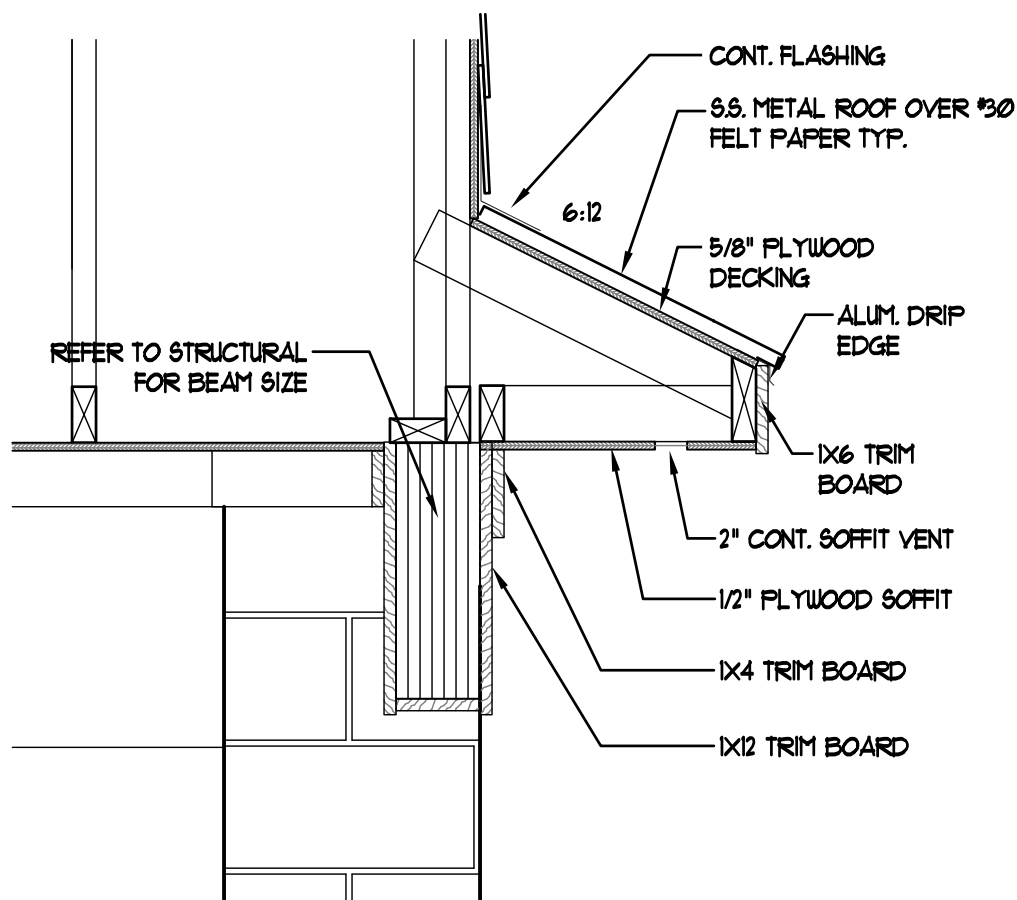
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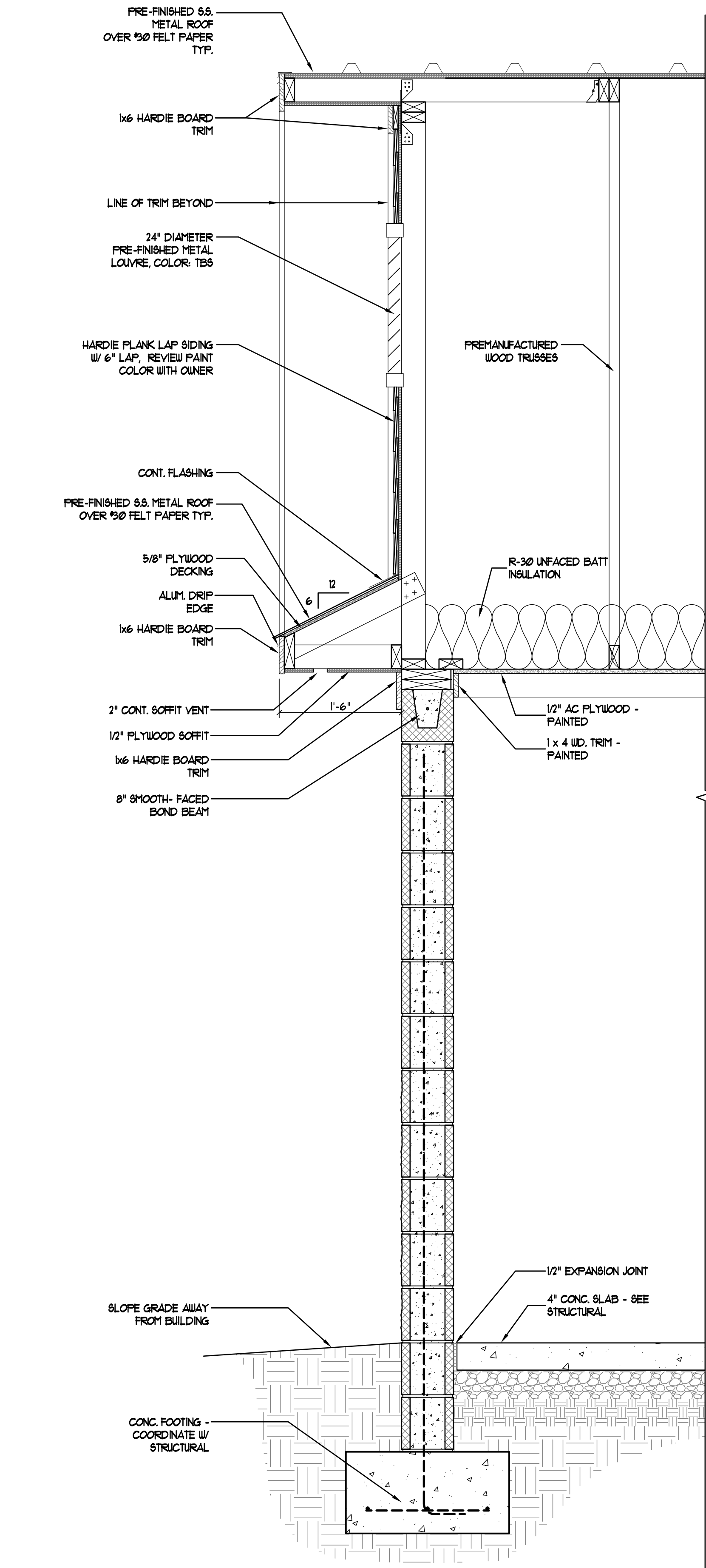
-- NOT USED

SCALE: N/A



1 SECTION @ BEAM

SCALE: 1" = 1'-0"

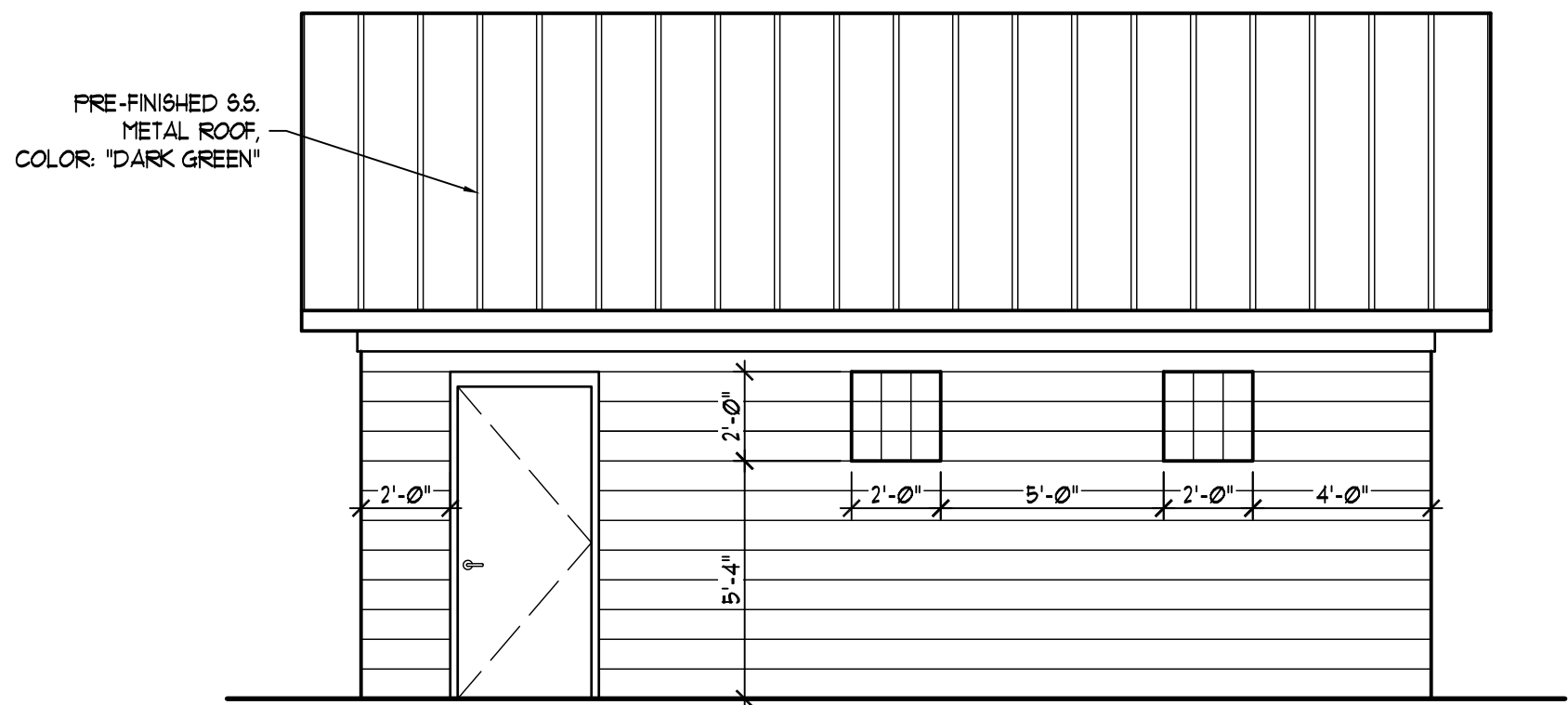


2 WALL SECTION @ GABLE END

SCALE: 1" = 1'-0"

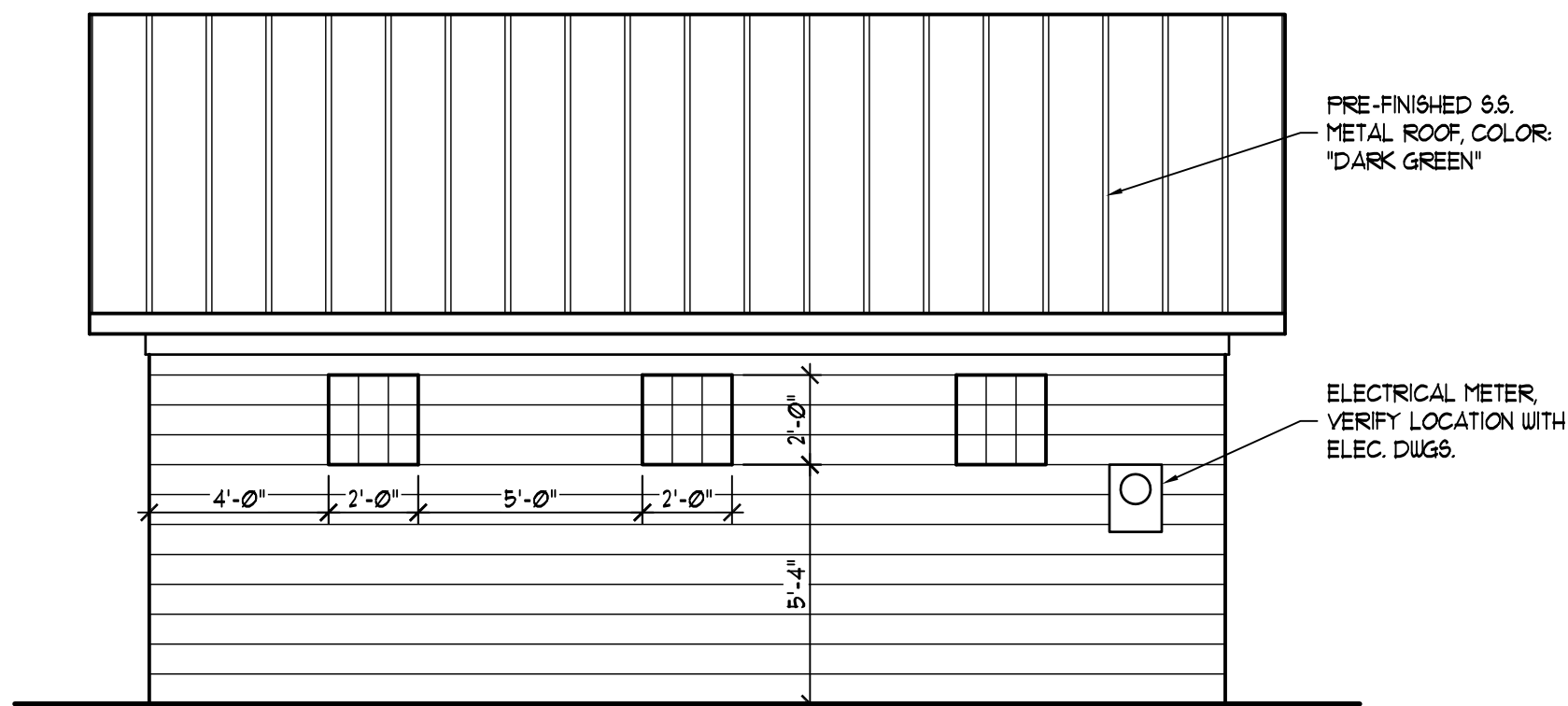
6 LEFT ELEVATION

SCALE: 1/4" = 1'-0"



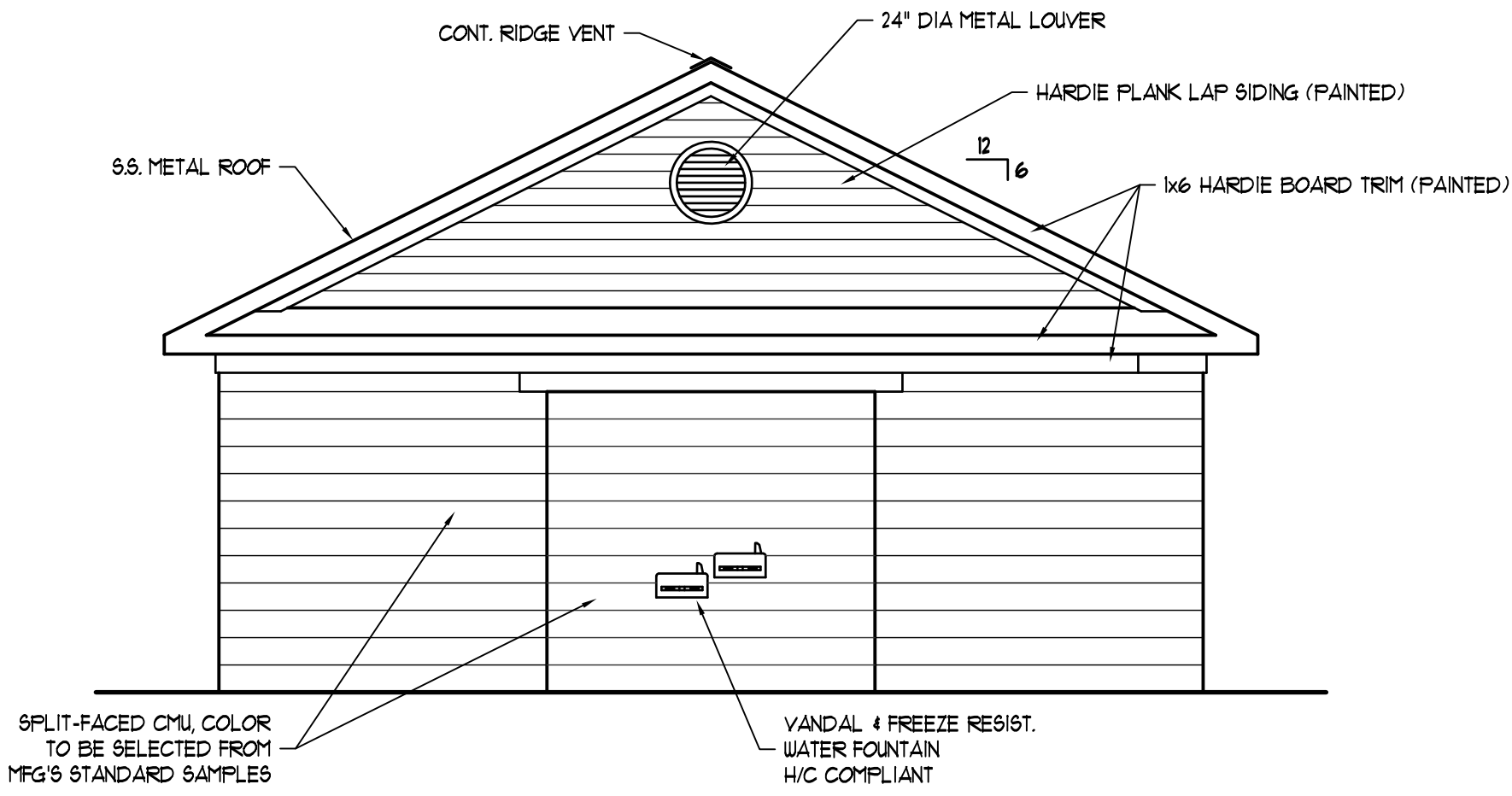
5 REAR ELEVATION

SCALE: 1/4" = 1'-0"



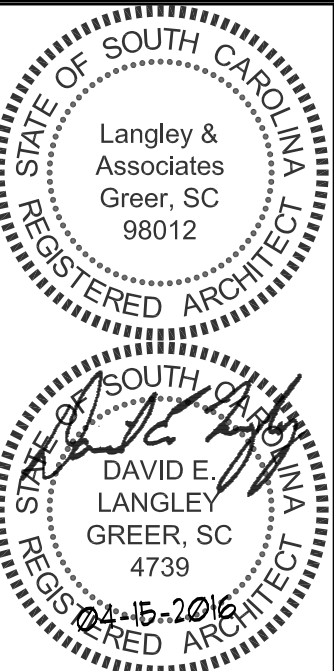
4 RIGHT ELEVATION

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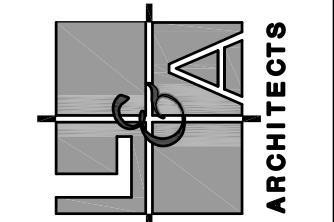


3 FRONT ELEVATION

SCALE: 1/4" = 1'-0"



NO.	DATE	DESCRIPTION



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NEW RESTROOM BLDG.
EAST RIVERSIDE PARK
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EXTERIOR ELEVATIONS

JOB NO: 2015-13E
DATE: 04-15-2016
DESC: ISSUE FOR BIDS

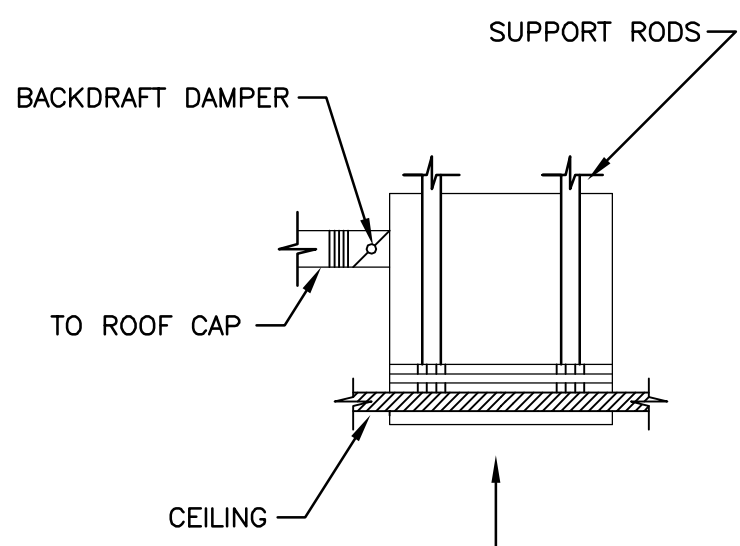
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MECHANICAL NOTES

1. MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND SHALL HAVE MANUFACTURERS' INSTALLATION INSTRUCTIONS ON SITE DURING FINAL INSPECTION.

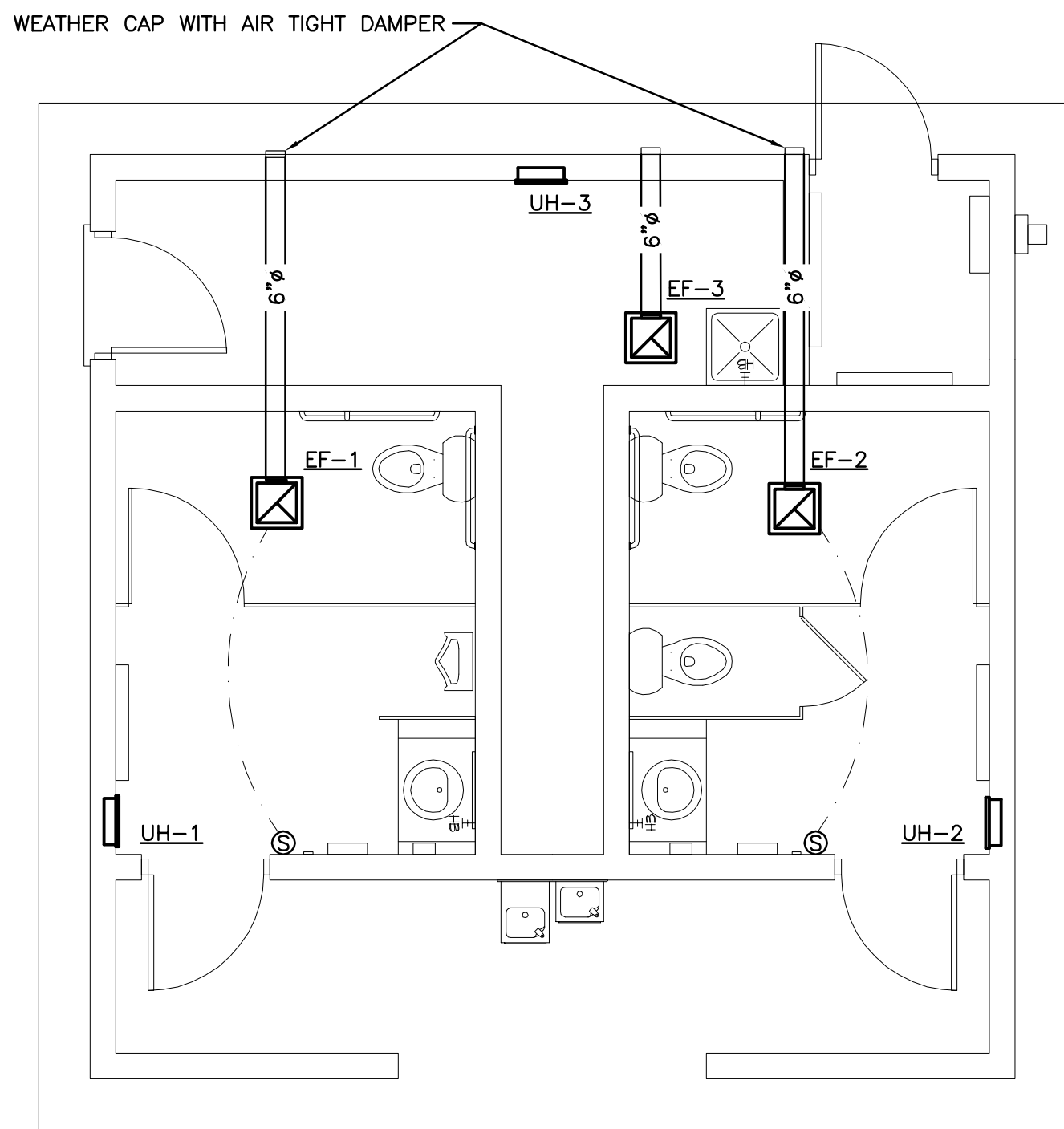
3. THESE DRAWINGS ARE OF A SCHEMATIC NATURE AND THE CONTRACTOR MUST OBTAIN ANY ADDITIONAL INFORMATION REQUIRED FOR THE WORK AND INTERFACE WITH OTHER DISCIPLINES ON SITE.
3. PREPARER OF THESE DRAWINGS SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY, PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR.
4. SUBSTITUTIONS - ALL PRODUCTS LISTED ARE TO ESTABLISH DESIGN AND QUALITY STANDARDS, NOT TO LIMIT SUBMITTALS. CONTACT ENGINEER IN WRITING PRIOR TO BID WITH ANY QUESTIONS. - ALL SUBSTITUTIONS MUST BE SUBMITTED IN WRITING WITH THE CONTRACTOR'S LETTER OF SUBSTITUTION, AS SPECIFIED, HIGHLIGHT SUBSTITUTION DEVIATIONS FROM MATERIALS SPECIFIED. COST INCURRED TO MODIFY PROJECT TO INSTALL SUBSTITUTED MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUESTING THE SUBSTITUTION.
5. RIGID DUCTWORK SHALL BE GALVANIZED STEEL METAL. DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA MANUAL. ALL DIMENSIONS ARE NET INSIDE CLEAR. PROVIDE FLEX CONNECTIONS AT ALL EQUIPMENT. PROVIDE TURNING VANES IN RECTANGULAR DUCT. FLEX DUCTWORK IS ALLOWED FOR THE FINAL 14 FEET OF DUCT LEADING UP TO GRILLES, DIFFUSERS AND AIR TERMINATION DEVICES UNLESS OTHERWISE SPECIFIED ON THE MECHANICAL PLANS.
6. COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
7. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH CEILING AND LIGHTING LAYOUT ON SITE. DUCTWORK CONSTRUCTION IS TO BE STARTED. ANY INTERFERENCES IS TO BE CORRECTED BY MECHANICAL CONTRACTOR OR REPORTED TO GENERAL CONTRACTOR.
8. DUCT TRANSITIONS FOR INTERFERENCE ISSUES CAN BE MADE USING EQUIVALENT AREA.
9. MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND SIDES TO KEEP DUCTWORK AS HIGH AS POSSIBLE. TAPS, TAKE-OFFS AND SPIN IN FITTINGS ARE NOT ACCEPTABLE IN THE END OF CAPPED DUCTS AND SHOULD BE PLACED NOT LESS THAN 12" FROM THE END OF THE DUCT LINE FOR PRESSURIZATION. OPENINGS THROUGH WALLS, FLOORS AND ROOFS SHALL BE FLASHED AND SEALED WATER TIGHT AND SHALL BE PER CODE.
10. SUPPORTS FOR DUCTWORK TO COMPLY WITH IMC AND IBC CODES.
11. INSTALL DUCT BALANCING DAMPERS AT ALL BRANCH TAKE OFFS UNLESS OTHERWISE NOTED ON DRAWINGS.
12. UNLESS OTHERWISE NOTED, MECHANICAL CONTRACTOR REQUIRED TO SUPPLY STARTERS AND DISCONNECTS FOR EQUIPMENT SHOWN ON ALL MECHANICAL SCHEDULES. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL AND WIRE CONNECTIONS.
13. UNLESS OTHERWISE NOTED, MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WIRING FOR THERMOSTATS AND ANY OTHER CONTROLS REQUIRED BY THE HVAC SYSTEM.



EXHAUST FAN DETAIL

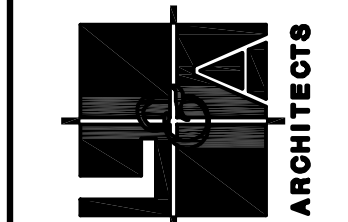
SCALE: NTS

ELECTRIC UNIT HEATER SCHEDULE							
EQUIPMENT NUMBER	MANUFACTURER	MODEL	BTU/HR	HEATER WATTS	ELECTRICAL (V/PH/HZ)	AMPS	WEIGHT (LBS)
UH-1	QMARK (MARLEY)	CWH1208DSF	6826	2000	208/1/60	9.6	20
UH-2	QMARK (MARLEY)	CWH1208DSF	6826	2000	208/1/60	9.6	20
UH-3	QMARK (MARLEY)	CWH1208DSF	6826	2000	208/1/60	9.6	20
NOTES							
1. PROVIDE FOR SURFACE MOUNTING KIT (WALL MOUNT).							
2. UNIT SHALL BE PROVIDED WITH THERMOSTAT. SET T-STAT TO 40° F.							
3. FAN FORCED HEATING TO 65 CFM.							



HVAC PLAN
SCALE: 1/4"=1'-0"

EXHAUST FAN SCHEDULE									
EQUIPMENT TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WC)	FAN RPM	DRIVE	WATTS	ELECTRICAL (V/PH/HZ)	ACCESSORIES
EF-1,2	GREENHECK	SP-B150	154	0.25	1,050	DIRECT	128	115/1/60	1-4
EF-3	GREENHECK	SP-B150	50	0.25	675	DIRECT	16	115/1/60	1-4
<p>* THE BRAND OF EQUIPMENT SHOWN ON SCHEDULE IS BASIS OF DESIGN. EQUAL PRODUCTS BY COOK, TWIN CITY, CARNES, PENN-BARRY.</p> <p>* CONTRACTOR MUST VERIFY UNIT CONFIGURATION TO FIT THE LAYOUT DESIGN.</p> <p><u>ACCESSORIES:</u></p> <p>1. BACKDRAFT DAMPER</p> <p>2. EXHAUST FAN/LIGHT COMBINATION SWITCH WITH LIGHT. PROVIDE WITH LED LIGHTING OPTION IF AVAILABLE FROM MANUFACTURER.</p> <p>3. FACTORY DISCONNECT</p> <p>4. ROUND DUCT CONNECTION</p>									

[illegible]

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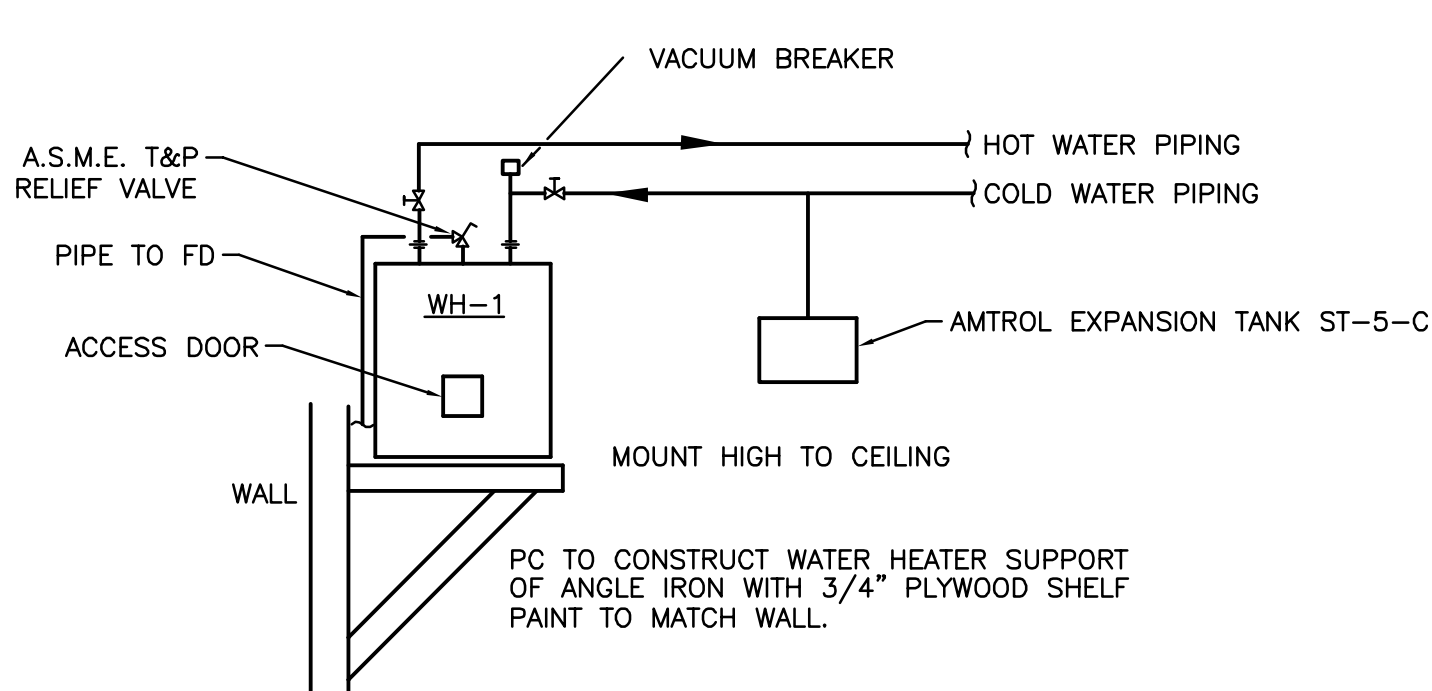
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DATE: 3/31/16
DESC: FOR CONSTRUCTION

ALL MATERIALS AND EQUIPMENT SHALL BE OF NEW AND OF FIRST QUALITY. WORKMANSHIP SHALL CONFORM TO THE BEST PRACTICE FOR SUCH WORK. ALL INSTALLERS OF THE SYSTEMS SHALL BE TRAINED IN THE INSTALLATION OF THE TYPES OF SYSTEMS BEING INSTALLED.

- | ITEM | DESCRIPTION | FIXTURE | WASTE | VENT | HOT SUPPLY | COLD SUPPLY |
|--------|---|---|----------|-------|------------|-------------|
| WC-1A | AMERICAN STANDARD CADET 3, 16-1/2"H, WHITE, VITREOUS CHINA, FLUSH TANK, 1.6 GPF, ELONGATED BOWL, OPEN FRONT SEAT WATER CLOSET OR EQUAL. TANK HANDLES SHALL BE ON RIGHT OR LEFT SIDE, TO MATCH THE WIDE SIDE OF THE HANDICAPPED STALL. | FLOOR MOUNTED WATER CLOSET FLUSH TANK (HANDICAP ACCESSIBLE) | 4 | 2 | - | 1/2 |
| LAV-1A | AMERICAN STANDARD AQUALYN 20-3/8" x 17-3/8" SELF RIMMING OVAL COUNTERTOP LAVATORY, VITREOUS CHINA, . FAUCET HOLES ON 4" CENTERS W/ T&S BRASS #B-2711 DECK MOUNT FAUCET WITH A.D.A. APPROVED, PREMOLDED INSULATED COVERS FOR WASTE & SUPPLIES BELOW LAVATORY. | COUNTER LAVATORY (HANDICAP ACCESSIBLE) | 2 | 1 1/2 | 1/2 | 1/2 |
| UR-1A | AMERICAN STANDARD TRIMBROOK, VITREOUS CHINA, 3/4" TOP SPUD (OR EQUAL) PROVIDE W/ SLOAN ROYAL 8180 BATTERY AUTO FLUSH VALVE & HEAVY DUTY WALL CARRIER, RIM MOUNTED AT 17" AFF. | WALL HUNG URINAL (HANDICAP ACCESSIBLE) | 2 | 1 1/2 | - | 3/4 |
| JS-1 | FIAT FLOOR MOUNTED MSBID2424, FAUCET- 830-AA W/ VACUUM BREAKER, HOSE & HOSE BRACKET #B32-AA, MOP BRACKET 889-CC, BUMPERGUARDS #I239BB & MSG2424 WALL GUARDS - STAINLESS STEEL. | MOP SINK | 3 | 1 1/2 | 3/4 | 3/4 |
| DF-1A | ELKAY MODEL EZSTL-8-C, TWO LEVEL, WALL MOUNTED, BARRIER-FREE ELECTRIC WATER COOLER WITH FRONT AND SIDE EASY TOUCH CONTROLS, FLEXI-GUARD SAFETY BUBBLER AND EXTRA DEEP BASIN OR EQUAL, 115V, 8 GPH, 4 OZ, 370 W | ELECTRIC WATER COOLER (BI-LEVEL) | 2 | 1 1/2 | - | 1/2 |
| WH-1 | 10 GALLON, ELECTRIC, 208V, 2.0KW 8 GPH RECOVERY 1/2" 90° RITE, STATE MODEL #PCE 10MSA-2. B&G MODEL EXPANSION TANK PTA-5 OR EQUAL | WATER HEATER | - | - | 3/4 | 3/4 |
| HB | WOODFORD #24, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL HYDRANT OR EQUAL. | HOSE BIBB | - | - | - | 3/4 |
| FCO | FLOOR CLEANOUT - ZURN MODEL ZN-1400, WITH SATIN BRONZE TOP, ADJUSTABLE CAST IRON HOUSING, PVC TAPERED PLUG AND OUTLET CONNECTION TO MATCH PIPING. PROVIDE CLAMPING FLANGE FOR FLOORS HAVING A WATERPROOF MEMBRANE. SIZE AS INDICATED ON DRAWINGS. | FLOOR CLEAN OUT | SEE PLAN | - | - | - |
| FD | FLOOR DRAIN - ZURN MODEL ZN-415, 6" TYPE B STRAINER, WITH CAST IRON HOUSING, ADJUSTABLE SATIN BRONZE TOP, CLAMPING COLLAR, AND OUTLET CONNECTION TO MATCH PIPING SIZE AS INDICATED ON DRAWINGS. INSTALL SURE SEAL INLINE 3" FLOOR DRAIN TRAP SEALER \$553000. | FLOOR DRAIN | 3 | 1 1/2 | - | - |
| YCO | YARD CLEANOUT-ZURN MODEL Z-1456-OX WITH DECK PLUG AND O-RING SEAL | YARD CLEANOUT | SEE PLAN | - | - | - |
- GENERAL PLUMBING FIXTURE NOTES: (THESE NOTES APPLY TO ALL APPLICABLE PLUMBING FIXTURES)
- ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL HAVE SHUT-OFF VALVES.

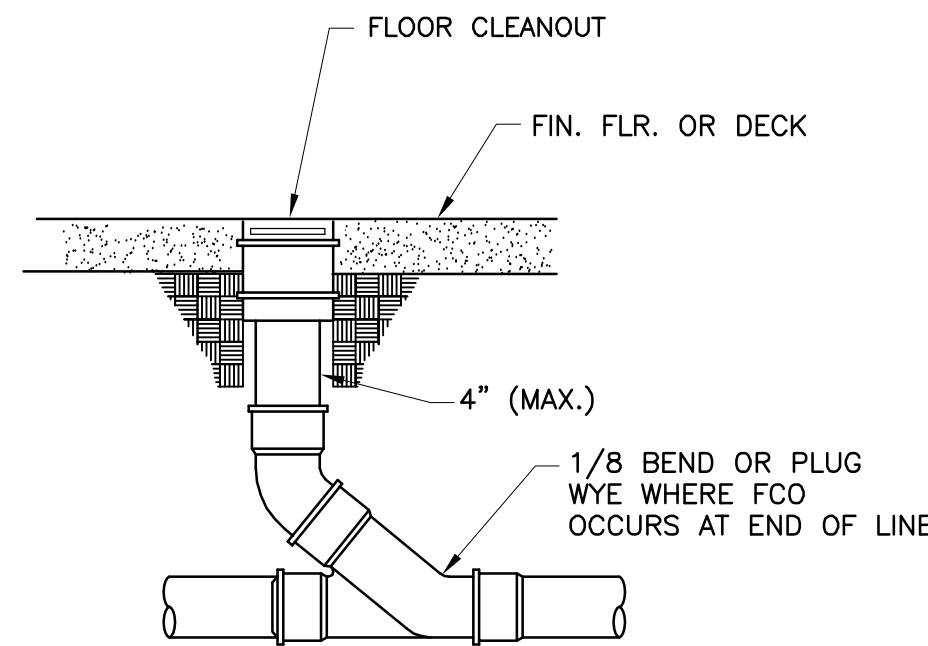
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
CONT	CONTINUATION	PC	PLUMBING CONTRACTOR
CO	CLEAN OUT	SS	SANITARY SEWER
CW	COLD WATER	TYP	TYPICAL
DN	DOWN	U/G	UNDERGROUND
FD	FLOOR DRAIN	V	VENT
FCO	FLOOR CLEAN OUT	VTR	VENT THRU ROOF
FS	FLOOR SINK	W	WASTE
GC	GENERAL CONTRACTOR	W/	WITH
GPH	GALLONS PER HOUR	WCO	WALL CLEAN OUT
GP/M	GALLONS PER MINUTE	WH	WATER HEATER
HB	HOSE BIBB	WHD	WALL HYDRANT
HD	HUB DRAIN	YCO	YARD CLEANOUT
HW	HOT WATER		

PLUMBING LEGEND & SYMBOLS

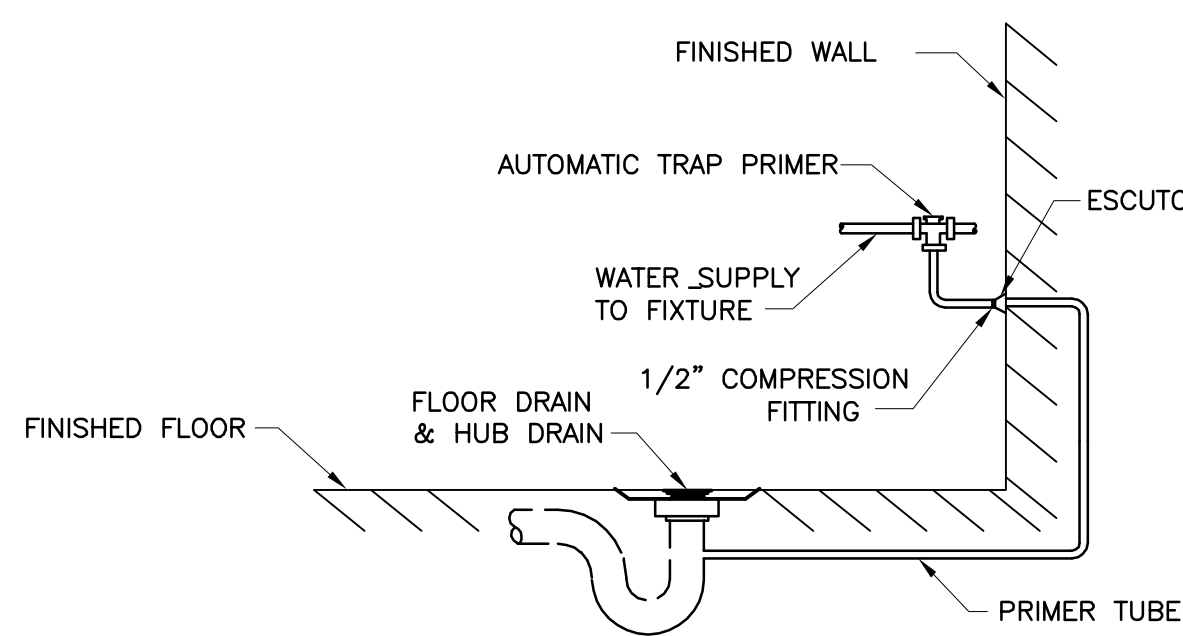


WATER HEATER DETAIL

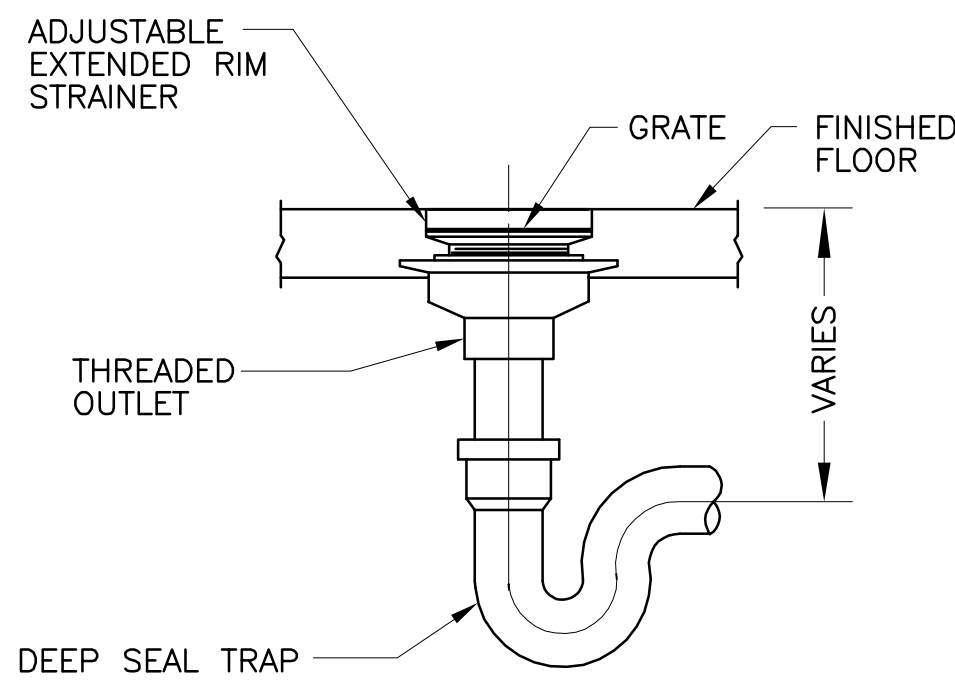
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FLOOR CLEANOUT DETAIL



TRAP PRIMER DETAIL



FLOOR DRAIN DETAIL

SYMBOL	DESCRIPTION
	HOME RUN TO LIGHTING/SERVICE PANEL. HASH MARKS, WHEN SHOWN, INDICATE NUMBERS OF CONDUCTORS. * / * INDICATES HOT WIRE, * / * INDICATES NEUTRAL CONDUCTOR, * / ° * INDICATES GROUND CONDUCTOR. HOME RUN NOTE INDICATES PANEL NAME AND CIRCUIT NAME OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 5/4" CONDUIT UNLESS NOTED OTHERWISE. ANY HOME RUN OR CONDUIT WITHOUT HASH MARKS IS TO CONTAIN 3 CONDUCTORS; 1 HOT, 1 NEUTRAL, AND 1 EQUIPMENT GROUND, EACH HOT CIRCUIT SHALL BE PAIRED WITH A SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS BETWEEN CIRCUITS IS NOT ALLOWED.
	EXPOSED CONDUIT
	CONDUIT RUN IN SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, UNLESS NOTED OTHERWISE.
	LIGHTING OR SERVICE PANEL, SURFACE MOUNTED.(208V)
	LIGHTING OR SERVICE PANEL, SURFACE MOUNTED.(480V)
	EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
	WATER HEATER.
	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "20" INDICATES FUSE SIZES, "3P" INDICATES NUMBER OF POLES, ENCLOSURE TO BE NEMA 1 UNLESS NOTED OTHERWISE (3R, 4X, ETC.) SQUARE D H300 SERIES HEAVY DUTY SAFETY SWITCH
30/20/3P/3R	PHOTOELECTRIC CELL, SPEC GRADE, TO BE MOUNTED ON ROOF, FACING NORTH, TORK MODEL Z101 OR EQUAL.
	<u>WIRING DEVICES</u>
	NOTE: ALL WIRING DEVICES TO BE IVORY, WITH #302 STAINLESS STEEL COVER PLATE (FLUSH MOUNTED) UNLESS NOTED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
	<u>SWITCH SYMBOLS</u>
	MANUAL MOTOR STARTER
	SINGLE POLE LIGHTING SWITCH 120-277 VOLT, 20 AMP, SPEC GRADE. LETTER ("a") DESIGNATES WHICH FIXTURES ARE CONTROLLED FROM WHICH SWITCHES WHEN MULTIPLE SWITCHES ARE USED ON ONE CIRCUIT
	TIMER SWITCH WITH DIGITAL TIMER, WATTSTOPPER # TS-400
	OWN-DIRECTIONAL DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR - WATTSTOPPER # DT-300
	<u>STRAIGHT BLADE DEVICE SYMBOLS</u>
	20A, 125V, 2P, 3W, NEMA 5-20R, DUPLEX RECEPTACLE. HUBBELL 5362-1 OR EQUAL.
	STANDARD POWER. "WP" DENOTES WEATHERPROOF COVER PLATE. "GFI" DENOTES GFCI TYPE.
	SAME AS "WP" ABOVE EXCEPT BOTTOM OF OUTLET MOUNTED ABOVE COUNTER HEIGHT
	HAND DRYER CONNECTION
	<u>LIGHTING SYMBOLS:</u>
	2' x 4' CEILING MOUNTED FIXTURE
	SWITCHED FIXTURE WITH EMERGENCY LIGHTED BATTERY BACKUP. ROUTE 'HOT' SENSING CIRCUIT TO BATTERY
	4' STRIP FIXTURE
	EXTERIOR WALL PACK
	SURFACE CEILING MOUNTED OR RECESSED DOWNLIGHT

GENERAL LIGHTING NOTES:

1. MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.
2. ALL FIXTURES TO BE U.L. LABELED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE SUBMITTING FIXTURE.
3. PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED.
4. EMERGENCY BATTERY BALLAST SHALL PROVIDE A MINIMUM OF 1100 LUMEN OUTPUT. BALLAST SHALL CONTAIN INTEGRAL SENSING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED BETWEEN DAYLIGHT OPERATION AND ENERGIZE BATTERY POWERED LAMP UPON LOSS OF POWER CIRCUIT, REGARDLESS OF SWITCH POSITION. MANUFACTURER SHALL BE BIDDING OR APPROVED ALIKE.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	MOUNTING HEIGHT	LAMPS	FIXTURE WATTAGE	VOLTAGE
ILA	4', FLED CHANNEL STRIP LIGHT, STEEL HOUSING, FROSTED ACRYLIC LENS, WHITE FINISH, PAF, 0-10V DIMMING DRIVER	LITHONIA # ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WH LSI # SDL-4-LED-HO-WW-UE COLUMBIA # LCL4-35-ML-EDU-PAF		NOMINAL 5000 LUMEN LED PANEL 3500K	48	UNIVERSAL VOLTAGE
LAE	SAME AS 'IA' ABOVE EXCEPT PROVIDED WITH EMERGENCY BATTERY BACKUP.	LITHONIA # ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-E7W-WH LSI # SDL-4-LED-HO-WW-UE-EM COLUMBIA # LCL4-35-ML-EDU-PAF-ELL14		NOMINAL 5000 LUMEN LED PANEL 3500K	48	UNIVERSAL VOLTAGE
RL	6" DIA. RECESSED 2000 LUMEN LED CAN LIGHT, SELF-FLANGED WITH CLEAR SDMI-SPECULAR FINISH AND 0-10V DIMMING DRIVER. SPEC GRADE.	GOTHAM # EVO-35/20-6AR-MWD-LSS-MVOLT-EZ1 CREE # KR6-20L-35K-VOLT-10V/KR61-SSGC-FF/KR6TA PRESCOLITE # LF6LEDG4-6LF6LED7G4-35K	RECESSED	NOMINAL 2000 LUMEN LED PANEL 3500K	30	UNIVERSAL VOLTAGE
RLE	SAME AS 'RL' ABOVE EXCEPT PROVIDED WITH EMERGENCY BATTERY BACKUP.	GOTHAM # EVO-35/20-6AR-MWD-LSS-MVOLT-EZ1-EL CREE # KR6-20L-35K-VOLT-10V-EB7/KR61-SSGC-FF/KR6TA PRESCOLITE # LF6LEDG4-EM-6LF6LED7G4-35K-EM	RECESSED	NOMINAL 2000 LUMEN LED PANEL 3500K	30	UNIVERSAL VOLTAGE
VL	SURFACE MOUNTED VANDAL RESISTANT LED 4' WRAP AROUND, PAF.	COOPER # HVL8-4-LD4-2-LO-35-UNV-C-EDD-PAF LUMINARE LED # VPFB-46-50W-3500K-120-277-CP-PNA WILLIAMS # AVX-4-LED*PH40/835-DRV-UNV	SURFACE	NOMINAL 4000 LUMEN LED PANEL 3500K	80	UNIVERSAL VOLTAGE OR MULTI-TAP
VLE	SAME AS 'VL' ABOVE EXCEPT WITH EMERGENCY BATTERY BACKUP	COOPER # HVL8-4-LD4-2-LO-35-UNV-C-EDD-PAF-EL10W LUMINARE LED # VPFB-46-50W-3500K-120-277-CP-PNA-EMB310 WILLIAMS # AVX-4-LED*PH40/835-DRV-EM/BSL310-UNV	SURFACE	NOMINAL 4000 LUMEN LED PANEL 3500K	80	UNIVERSAL VOLTAGE OR MULTI-TAP
WRE	WALL MOUNTED MINI-SCONCE, CUTOFF, MEDIUM THROW, DIE CAST ALUMINUM HOUSING AND DOOR FRAME, 1/8" TEMPERED GLASS GASKETED LENS, SPECULAR EXTRUDED POLISHED ANODIZED SEALED REFLECTOR, WET LOCATION WITH REMOTE MOUNTED 90 MINUTE BACKUP INTERCONNECTING BALLAST COMPLETE WITH REQUIRED INTERCONNECTING SWITCH, TEST SWING MOUNTING TRAY AND INDICATOR LIGHT, (BATTERY UNIT TO BE MOUNTED IN CONDITIONED SPACE), COLOR TO MATCH BUILDING FINISH COLOR. TEN DEGREES F OPERATION..	LITHONIA # WST-2/26DTT-MD-MVOLT-PSDL1-2LP-ELARTS3-ELAPSDMT LUMARK # PLUP-T-52-MT-EM140 WILLIAMS - APPROVED EQUAL		2-26W DTT COMPACT FLUORESCENT	52	UNIVERSAL VOLTAGE OR MULTI-TAP

ELECTRICAL GENERAL NOTES:

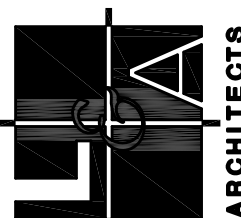
1. INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
2. CONFORM TO THE NATIONAL ELECTRICAL CODE (2011), IBC (2012), EEC (2009), APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
3. FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW, WITH FIRST QUALITY AND UL LABEL.
4. VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
5. CONDUIT SHALL BE ENT FOR BRANCH CIRCUIT WIRING AS ALLOWED BY NEC, EXCEPT THAT SERVED OR GROUP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, STRANDED 600V COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
6. PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. GROUND SERVICE TO BUILDING STEEL, DRIVEN GROUND ROD AND COLD WATER PIPE.
7. ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION.
8. SEAL ALL CONDUIT PENETRATIONS TO MATCH RATING OF WALL BEING PENETRATED.
9. ALL WORK SHALL HAVE PROPER LABELING AND NAMEPLATES. ALL CIRCUITS SHALL BE LABELED AT PANELS AND BOXES AS INDICATED. ALL PANELS AND DISCONNECTS ARE TO BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS ARE TO BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
10. ALL BREAKERS ON CIRCUITS SUPPLYING HVAC EQUIPMENT SHALL BE TYPE HACR BREAKERS.
11. COORDINATE WITH ELECTRICAL UTILITY AS REQUIRED FOR SERVICE ENTRY. INSTALL METER AND CONDUITS PER UTILITY REQUIREMENTS AND PAY ALL REQUIRED FEES OR CHARGES FOR SERVICES SHOWN.
12. THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. REMOVE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNERS' PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
13. GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
14. CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
15. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2012 IBC.
16. ALL PANELBOARDS SHALL BE FURNISHED WITH COPPER BUS BARS AND A COPPER GROUNDING BUS BAR.

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
BKR	BREAKER
CJ	COPPER
CKT	CIRCUIT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GFI	GROUND FAULT INTERRUPTER DEVICE
IMC	INTERMEDIATE METAL CONDUIT
LTG	LIGHTING (L.)
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MDP	MAIN DISTRIBUTION PANEL
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT

RECP	RECEPTACLE (R.)
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
SW	SWITCH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UGND	UNDERGROUND
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

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LEGEND, SCHEDULES & PLANS

JOB NO: 2015-13E
DATE: 04-15-2016
DESC: .

E101

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